

# MacAddict

A BETTER MAC COMPUTER MAGAZINE

5TH ANNUAL  
BUG-SQUISHING  
SUPRGUIDE

# 46 Bugs

(AND HOW TO  
KILL THEM ALL)

Our expert exterminators annihilate all your  
Mac's peskiest problems—**PERMANENTLY!**



## INTO THE BLOGOSPHERE!

Build your own blog—it's easy, fun,  
and it can earn you **\$\$\$\$\$**

### REVIEWED:

- DUAL 2.7GHZ POWER MAC G5
- Photoshop & InDesign CS2
- True Crime: Streets of LA
- Poser 6 . . . and 15 more



### HOW TO:

- Build Better Slideshows
- Automate Your Backups
- Arm Your Mac with a  
Remote Security Cam

Future  
MEDIA WITH PASSION

0.8  
\$7.99 US \$9.99 CAN  
0 171486 01096 8

# Now

**TECHTOOL<sup>®</sup> PRO**  
VERSION 4.0

**MICROMAT INCORPORATED**

**TECHTOOL<sup>®</sup> PRO**  
VERSION 4.0

**The complete Macintosh problem-solving utility.**

- Predicts impending drive failures
- Recovers data from severely damaged drives
- Runs multiple tests at the same time
- Finds and repairs problems with your drives
- Optimizes your drives for faster performance
- Tests computer components that no other product can check
- Includes bootable emergency CD-ROM
- Protects by backing up catalog and directory files
- Includes a multitude of tools for testing and adjusting your system
- Recovers lost data that other utilities can't find

Introducing eDrive, a revolutionary new way to make troubleshooting easier

**eDrive**

**MICROMAT INCORPORATED**

**TECHTOOL PRO**

"TechTool Deluxe... It did a long inspection job on my disk... I was able to access it again and it works... you have made me a TechTool customer from here on out. I am truly grateful..."  
THANK YOU! THANK YOU! THANK YOU! —Michael F. Washington

"... my hard drive was fully recovered... You have a customer for life!"  
—Matthew T., Manager of Marketing and Information Technology

# Tiger compatible...

## The complete Macintosh problem solving utility.



### Diagnostics and Repair

TechTool® Pro includes options to thoroughly check various hardware components, drives, and other aspects of your computer system. One of the most important tests is the S.M.A.R.T. test, which checks for impending drive failure.



### Optimization

This feature defragments the files on your hard drive and consolidates all the free space into one large block. Optimizing enhances the overall performance of your hard drives and simplifies file layout on the disk.



### Data Recovery

TechTool Pro includes routines that can search a damaged drive and attempt to recover valid files to another location. Hence, even if a drive is damaged beyond repair, you may still be able to save important data that had not been backed up.



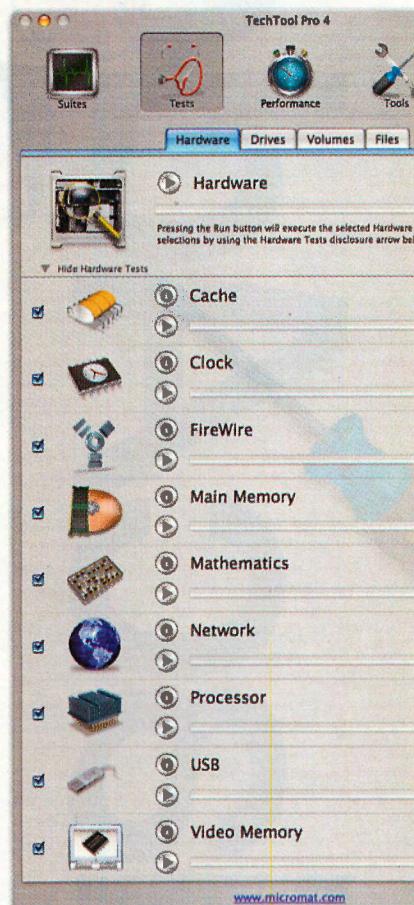
### Safety

The Safety feature can be configured to protect your drives by automatically creating backups of critical drive directory data. It can also test the computer for developing problems and alert you, both onscreen and via email, if problems are detected.



### eDrive

One of the most innovative features of TechTool Pro is the eDrive. This is a bootable Mac OS X partition containing TechTool Pro and a small copy of your system that you can use in an emergency. It is created on one of your hard drives without the need to reformat.



[www.micromat.com](http://www.micromat.com)

Micromat, Inc., 5329 Skylane Blvd., Santa Rosa, CA 95403  
800-829-6227 707-566-3831 [info@micromat.com](mailto:info@micromat.com) [www.micromat.com](http://www.micromat.com)



Also From Micromat  
DiskStudio  
PodLock



## features

### 16 46 Bugs (and How To Squash Them)

Your Mac's not operating on its best behavior? Here's how to squish some of its trickiest, ickiest bugs.

by Deborah Shadovitz

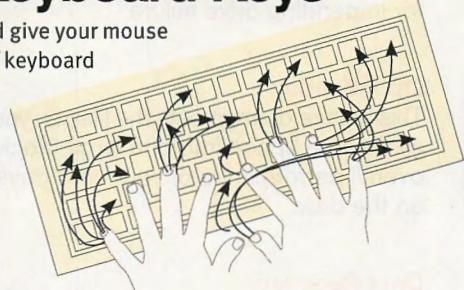


### 30 Enter the Blogosphere

Does it feel like everyone's blogging but you? Here are the best ways to carve your own personal 'Net niche. by Johnathon Williams

### 34 Key Keyboard Keys

Stop abusing those menus and give your mouse a break with this handy collection of keyboard shortcuts. by Jake Widman



## how to

### 56 Ask Us

An ode to using your Mac without a keyboard, a paean to those who would alter startup sounds, and an elegy for an aging iPod.



### 58 Build Better Slideshows

There are a million ways to create a slideshow—here are the best methods to bring your photos to life. by Russ Hunter

### 60 Automate Your Backups

You don't need pricey backup software if you've got AppleScript and the Terminal on your side.

by Johnathon Williams



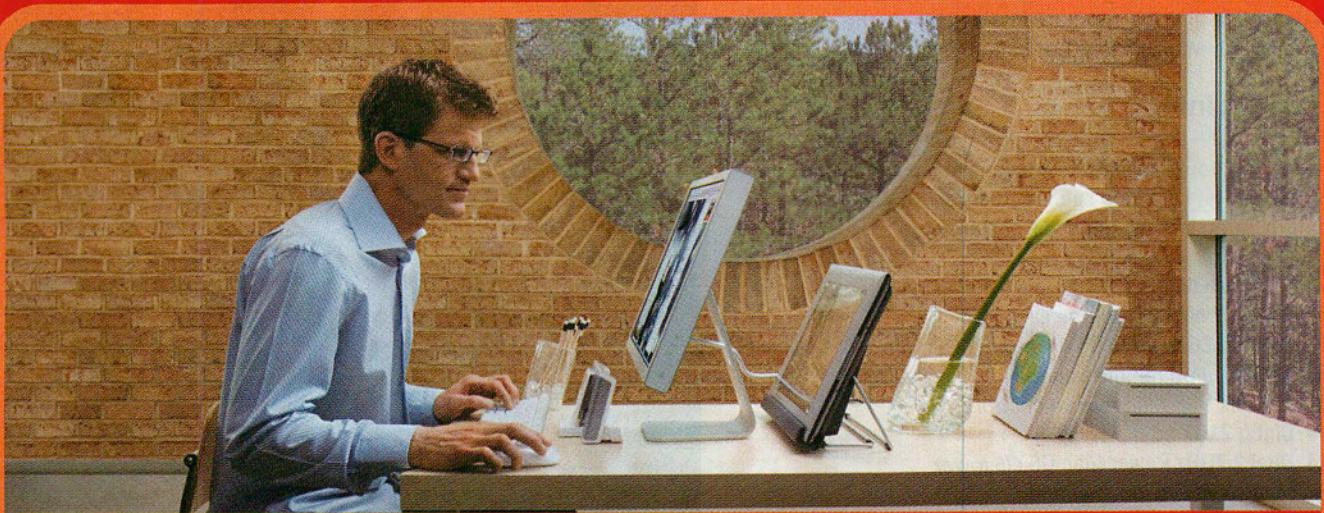
### 62 Arm Your Mac with a Remote Security Cam

Use your digital camera and OS X's remote-operation features to monitor your home or operate your camera from just about anywhere. by Niko Coucouvanis



# Our creative tools keep you in sync with your business.

(Perfectly in sync, that is.)



## Apple® Power Mac® G5

- Dual 2.0GHz PowerPC G5 Processors
- Memory: 512MB
- 160GB Serial ATA hard drive
- CD-RW/DVD-R SuperDrive™
- 10/100/1000 Ethernet
- Mac OS® X 10.4 Tiger



**\$1995**  
DESKTOP  
CDW 777443  
-30  
TRADE-IN'

**\$1965**

Recommended service:  
AppleCare® 3-year onsite protection plan  
\$249 (CDW 442761)



## Adobe® Creative Suite 2 Premium

- Full new versions of Adobe® Photoshop® CS2, Illustrator® CS2, InDesign® CS2, GoLive® CS2, and Acrobat® 7.0 Professional
- Version Cue® file-version management and collaboration—featuring robust file tracking, enhanced searching and support for initiating browser-based Adobe® PDF reviews
- New integration features—Adobe® Bridge for centralized file browsing, Adobe® Stock Photos, centralized color settings, unified Adobe® PDF file creation, and workflow scripts



Upgrade from CS  
Premium 1 for Mac®  
**\$579**  
CDW 768335

Full Version For Mac®  
**\$1169**  
CDW 768334



## HP Designjet 90 Color Printer

- Resolution: up to 2400 dpi with HP Color Layering Technology and HP PhotoRET IV
- Memory: 64MB std.
- Paper handling: 100-sheet input tray for sheets up to 18 x 24 inches
- Utilizes 6 fade-resistant, dye-based ink cartridges
- 1-year limited warranty



**\$995<sup>99</sup>**  
CDW 785620

## The Mac Solutions You Need When You Need Them.

When you're bringing ideas to life, your technology should work with you, not against you. CDW has all the top-name technology you need to improve workflow. Our account managers provide fast answers to your product questions. And with access to the industry's largest in-stock inventories, you'll get what you need when you need it. So why wait? Get new systems today and start creating tomorrow.

\*Processors eligible for trade-in include PowerPC G3, G4, G5, Intel Pentium II, III 4 or Intel Celeron; AMD processors do not qualify; trade-in values are estimates only; actual trade-in values may vary from \$25 to \$500; all products must be in good working condition and have a fair market value; call your CDW account manager for details. Offer subject to CDW's standard terms and conditions of sale, available at CDW.com. © 2005 CDW Corporation

**CDW** | macwarehouse®

The Right Technology. Right Away.™

macwarehouse.com • 800.ALL.MACS

In Canada, call 800.268.7805 • CDW.ca

# every month

## 07 Editors' Page

A dollar just ain't worth what it used to be—in the case of your Mac, it's worth a lot more.

## 10 Get Info

Yes, it's true—soon, Apple computers will have Intel inside. Find out just what this means for you and your Mac. Also: an HD-video camera to drool over, and how to turn Safari into a language translator.

## 37 Reviews

- 45 1.42GHz eMac all-in-one CRT Mac
- 47 20-Inch 2GHz iMac G5 all-in-one LCD Mac
- 53 AirClick iPod remote control
- 51 AirClick USB Mac remote control
- 48 Cintiq 21UX LCD display
- 44 Dual 2.7GHz Power Mac G5 G5 tower
- 54 FontAgent Pro font manager
- 52 HC100U projector
- 54 Hybrid Hardpack backpack
- 49 IceTune iPod speakers
- 42 InCopy CS2 InDesign-companion app
- 40 InDesign CS2 page-layout software
- 49 mm22 Portable Speakers for iPod
- iPod speakers
- 54 Opus in-ear earbuds
- 46 P-2000 portable multimedia player
- 38 Photoshop CS2 image-editing app
- 50 Poser 6 3D-modeling software
- 52 pzizz nap-time software
- 50 Rise of Nations real-time strategy game
- 51 True Crime: Streets of LA action game

## 55 The Hot List

We'd spend our own hard-earned money on these products.

## QUICK TIPS

FROM THIS MONTH'S ISSUE

### → JUST DRAG AND DROP

Use your Finder-window Sidebar to stash folders or files for quick access. Just drag 'em in and drag 'em back out when you're done. **From Ask Us, p56.**



### → SUPERDRIVE, SHMUPERDRIVE

iDVD used to only support Apple-

installed SuperDrives, but now you can use the Save As Disc Image option to burn with an aftermarket burner and software. **From "Build Better Slideshows," p58.**

### → PHOTOSHOP CS2 LIMITATION

A warning for Photoshop users with multiple



## 78 Log Out

### 78 Letters

Widgety tips from wily readers, and salve for one reader's QuickTime-upgrade wounds.

## 79 Contest

Got too many files? You could win yourself a 400GB hard drive—all you need to do is brandish your rapier wit.

## 80 Shut Down

And on the seventh day, he blogged.

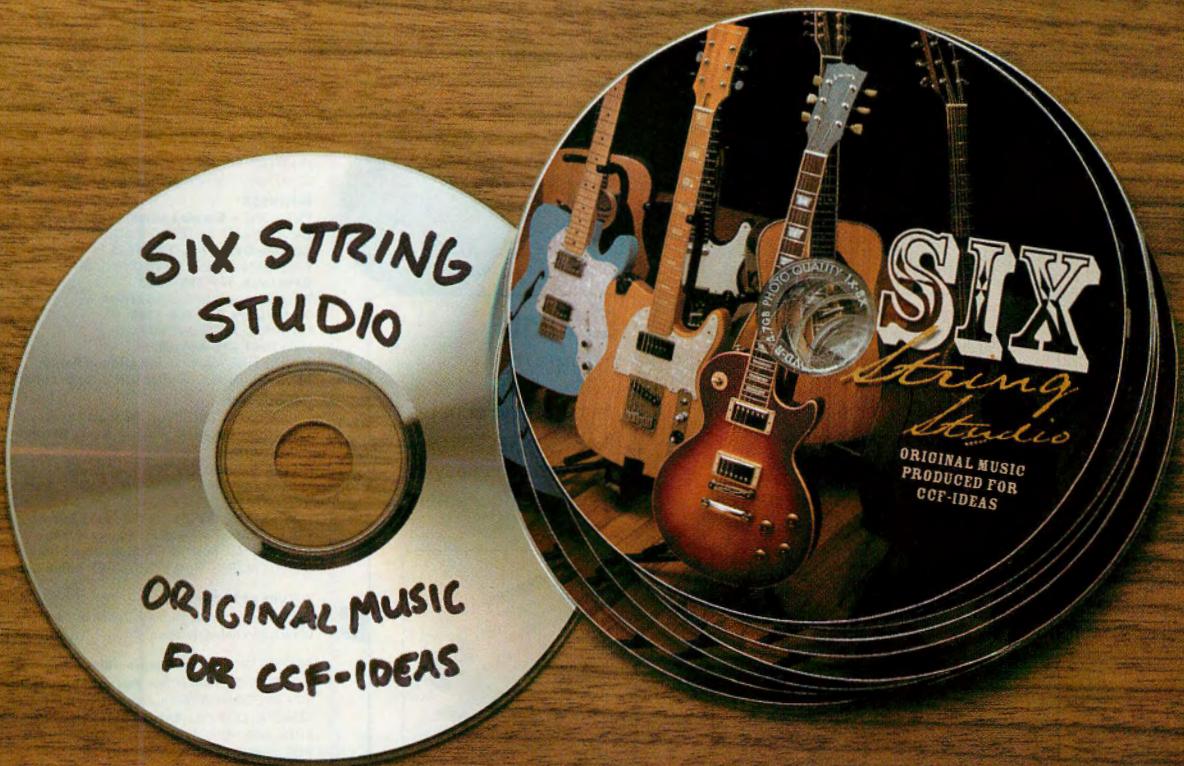
Macs: Adobe allows two installations of Photoshop CS2, but only one installation can be active at a time.

**From Reviews, p38.**

### → LOST IN TRANSLATION?

With LiveDictionary, you can hover your cursor over a word in Safari to bring up its definition—you can even add dictionaries of other languages for real-time translation. **From Get Info, p14.**





WILL YOUR DISC BE INSERTED INTO SOMEONE'S COMPUTER OR THE NEAREST WASTE BASKET?

**MAKE YOUR BUSINESS LOOK BETTER.** Introducing the Rimage 360i™, from the world leader in disc publishing. This affordable digital desktop disc recorder and printer lets you design, burn, and print directly to CDs and DVDs. It's easy to install, and it gives you the lowest cost of ownership over the lifetime of the product.\* To give your discs a sharp, professional image **call 1-888-482-3327** for a Rimage dealer near you, or visit [rimage.com/360i](http://rimage.com/360i).



 **RIMAGE 360i™**  
CREATE. BURN. PRINT.™

# the disc

Nearly half of this month's Disc is stuffed with a tryout version of Adobe's hot-off-the-presses Photoshop CS2—you can start exploring it as soon as you finish reading our review on page 38. After that, dig into the other 32 apps, games, and utilities that we managed to squeeze onto the Disc.

## Kill Monty shareware

If all you want from a game is the chance to indulge in mindless, nonstop mayhem, Kill Monty's for you.



### AUDIO & MUSIC

Peak LE 4.1.3 trial  
SoundSoap 2  
demo video  
StartupSound.prefPane  
1.0.3 freeware

### DEVELOPMENT

BBEdit 8.2.1 demo  
REALbasic 5.5.5 demo

### FUN & GAMES

Kill Dr. Coté 1.0 freeware  
Kill Monty 1.0.2  
shareware

### GRAPHICS & MULTIMEDIA

EasyCrop 1.8.2  
shareware  
Photoshop CS2 tryout  
Picture Rescue 1.1.0 trial

### INTERNET & COMMUNICATION

Advanced Web Ranking  
3.9.1 shareware  
Concierge 1.3.5  
shareware  
JIWire Hotspot Locator  
1.0 freeware

### UPGRADE

If you don't receive the Disc with your copy of MacAddict, you might want to consider upgrading. Each monthly Disc contains cool demos, useful shareware and freeware, and the inimitable MacAddict Staff Video. To get 12 issues of MacAddict that include this value-packed Disc with your subscription (prorated if necessary) for just \$1 more per issue, call 888-771-6222—the operator will take care of everything.

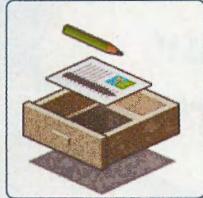
## MarsEdit shareware

Spell checking, drafts, multiple windows—MarsEdit makes updating your blog as easy as writing an email.



## Sidenote freeware

Manage all your notes, images, text clips, and PDFs with this easy-to-use multidocument organizer.



JunkMatcher 1.5.5  
freeware

LiveDictionary 1.1.6  
shareware

MarsEdit 1.0 shareware

RapidWeaver 3.1.1  
shareware

Rumpus 4.1.3 demo

WebDesign 2.6.1  
shareware

Wirecast 2.0 demo

WordPress 1.5.1.2  
shareware

### PRODUCTIVITY

AceReader Pro Deluxe  
2.8 shareware

Avenir 2.2.9 shareware

BK Task Timer 2.3  
shareware

Formation 1.1.3  
shareware

My Money Minder 1.5.4  
shareware

NoteBook 2.0 demo

pzizz 1.0.1 demo

### UTILITIES

DiskTracker (Classic)  
2.3 shareware

DiskTracker (OS X) 2.3  
shareware

FontAgent Pro 3.0.2  
demo

Sidenote 1.7 freeware

SuperDuper! 1.5.5(74)  
shareware

### SPONSORS

JIWire Hotspot Locator  
1.0 freeware

NoteBook 2.0 demo

Peak LE 4.1.3 trial

Picture Rescue 1.1.0 trial

SoundSoap 2  
demo video



## Staff Video: Up Close

Take a close look—a very close look—at the environment in which MacAddict is created (and at the guys who create it).

108 MacAddict

# Photoshop

Wanna wait for a 300MB download, Adobe's latest and greatest image? That's what we thought—so it's on

# MacAddict

## EDITORIAL

EDITOR IN CHIEF **Rik Myslinski**

MANAGING EDITOR **Sean Molloy**

FEATURES EDITOR **Jake Widman**

HOW-TO EDITOR **Niko Coucounis**

REVIEWS EDITOR **Roman Loyola**

WEB MONKEY **Nick Muerder**

EPMONITOR **Max**

CONTRIBUTING EDITORS **David Biedny, Joseph O. Holmes, Helmut Kobler, Cathy Lu, Steven Parke, Ian Sammis, Deborah Shadowitz, Andrew Tokuda, Michelle Victoria, Buz Zoller**

## ART

ART DIRECTOR **Mark Rosenthal**

ASSISTANT ART DIRECTOR **Peter Marshutz**

PHOTOGRAPHER **Mark Mado**

CONTRIBUTING PHOTOGRAPHER **Samantha Berg**

## BUSINESS

PUBLISHER **Bernie Lanigan, 646-723-5405**

EASTERN ADVERTISING MANAGER **Anthony Danzi, 646-723-5453**

WESTERN ADVERTISING DIRECTOR **Dave Lynn, 949-360-4442**

WESTERN ADVERTISING MANAGER **Stacey Levy, 925-964-1205**

NATIONAL ACCOUNT MANAGER **Nate Hunt, 415-656-8536**

MARKETING MANAGER **Kathleen Reilly**

ADVERTISING COORDINATOR **Jose Urrutia, 415-656-8313**

## PRODUCTION

PRODUCTION DIRECTOR **Richard Lesovoy**

PRODUCTION COORDINATOR **Larry Briseno**

## CIRCULATION

CIRCULATION DIRECTOR **Amy Leder**

NEWSSTAND MARKETING MANAGER **Bill Shewey**

BILLING AND RENEWAL MANAGER **Mike Hill**

NEWSSTAND COORDINATOR **Alex Guzman**

FULFILLMENT MANAGER **Peggy Mores**

DIRECT-MAIL MANAGER **Stephanie Blake**

DIRECT MARKETING SPECIALIST **Robin Connell**

## FUTURE NETWORK USA

150 North Hill Drive, Suite 40, Brisbane, CA 94005

[www.futurenetworkusa.com](http://www.futurenetworkusa.com)

PRESIDENT **Jonathan Simpson-Bint**

VICE PRESIDENT/CFO **Tom Valentine**

VICE PRESIDENT/CIRCULATION **Holly Klingel**

GENERAL COUNSEL **Charles Schug**

PUBLISHING DIRECTOR/GAMES **Simon Whitcombe**

PUBLISHING DIRECTOR/TECHNOLOGY **Chris Coelho**

PUBLISHING DIRECTOR/MUSIC **Steve Aaron**

PUBLISHING DIRECTOR/BUSINESS DEVELOPMENT **Dave Barrow**

EDITORIAL DIRECTOR/TECHNOLOGY **Jon Phillips**

EDITORIAL DIRECTOR/MUSIC **Brad Tolinski**

DIRECTOR OF CENTRAL SERVICES **Nancy Durlester**

PRODUCTION DIRECTOR **Richie Lesovoy**



Future Network USA is part of Future PLC

Future produces carefully targeted special-interest magazines for people who share a passion. We aim to satisfy that passion by creating titles offering value for money, reliable information, smart buying advice and which are a pleasure to read. Today we publish more than 100 magazines in the US, UK, France and Italy. Over 100 international editions of our magazines are also published in 31 other countries across the world.

The Future Network plc is a public company quoted on the London Stock Exchange (symbol: FNET).

## FUTURE PLC

30 Monmouth St., Bath, Avon, BA1 2BW, England

[www.futureplc.com](http://www.futureplc.com)

Tel +44 1225 442244

CHIEF EXECUTIVE: **Greg Ingham**

GROUP FINANCE DIRECTOR: **John Bowman**

**REPRINTS:** For reprints, contact Ryan Derfler, Reprint Operations Specialist, 717.399.1900 ext. 167 or email: [futurenetworkusa@reprintbuyer.com](mailto:futurenetworkusa@reprintbuyer.com)

**SUBSCRIPTION QUERIES:** Please email [mcductserv@cdsfulfillment.com](mailto:mcductserv@cdsfulfillment.com) or call customer service toll-free at 888-771-6222.

## Volume 10, Issue 8

**MacAddict** (ISSN 1088-548X) is published monthly by Future Network USA, 150 North Hill Dr., Ste. 40, Brisbane, CA 94005, USA. Periodical-class postage paid at Brisbane, CA, and at additional mailing offices. Newsstand distribution is handled by Curtis Circulation Co. Basic subscription rates: one year (12 issues + 12 CD-ROMs) U.S. \$39.90, Canada \$43.95, U.S. prepaid funds only. Canadian price includes postage and GST. I.P.M. 0962392. Outside the U.S. and Canada, price is \$53.95, U.S. prepaid funds only. POSTMASTER: Send address changes to MacAddict, P.O. Box 5126, Harlan, IA 51593-0626. Future Network USA also publishes Maximum PC, Mobile, PC Gamer, Official Xbox Magazine, PSM, Guitar World, Guitar One, Guitar World Acoustic, Bass Guitar, Guitar Legends, Future Music, Future Snowboarding, Snowboard Journal, Snowboard Trade News, Skateboard Trade News, and Scrapbook Answers. Entire contents copyright 2005. Future Network USA. All rights reserved. Reproduction in whole or in part is prohibited. Future Network USA is not affiliated with the companies or products covered in MacAddict. Ride-Along enclosure in the following edition(s): A2, B, B1, B2, B3. PRODUCED IN THE UNITED STATES OF AMERICA. Publications Mail Agreement #40043631. Returns: 4960-2 Walker Road, Windsor, ON N9A 6J3

# Cheap Thrills



A couple of days ago, I bought my first-ever pirate corn—y'know, “a buck an ear.”

Prices here in the San Francisco Bay Area have become obscene—million-dollar homes, gas at three bucks a gallon, 16-dollar bottles of water at tony hotels—but the prices of certain products have dropped precipitously in the past few years. Namely, Mac stuff.

To find out exactly how much better we have it these days when compared to previous years, I dug out my souvenir final copy of *MacUser*, the righteous rag where I began my Mac-mag career and which went under in October 1997. Here are a few gems from that issue.

One ad trumpeted the low cost and blazing power of the PowerComputing PowerTower Pro. The low cost? A cool \$4,795. The blazing power? A 275MHz G3, 64MB of RAM, and a 2GB hard drive. Such a deal—considering that today you can just about buy two dual 2.3GHz Power Mac G5s for the same chunk of change.

Hard-drive prices have plummeted. In *MacUser*'s back-of-the-book bargain basement, I found a great deal on an internal 9GB drive from LaCie: a mere \$1,887. Today, you can pick up a 1.6 terabyte LaCie Bigger Disk Extreme for a cool \$1,699—and the smallest mainstream internal drive sold by Other World Computing is 40GB; it goes for \$49.99.

How 'bout RAM? In 1997, a 128MB DIMM—when you could find one—went for around a thousand bucks; today you can max out your Power Mac G5 to a full 8GB from Crucial for \$919.96. Displays? Then, a 21-inch Radius PressView CRT would put you back \$2,689; today, a 21-inch ViewSonic G220FB CRT costs a mere \$519. Cameras? Fuji's 1.3-megapixel DS-300 cost \$2,500 (a SCSI interface card was a \$1,150 option); today, their four-megapixel S3100 is one-tenth the price.

Software prices, on the other hand, have remained relatively consistent. In 1997, you could buy Virtual PC 1.0 with Windows 95 for \$150, CorelDraw 6 Suite for \$388.98, and Adobe Illustrator 7.0 for \$595; today, Virtual PC for Mac Version 7 with Windows XP Home Edition is \$219, CorelDraw Graphics Suite 12 is \$399, and Adobe Illustrator CS2 is \$499. Version-number inflation; price stability.

All in all, considering the money I've saved on Mac stuff in recent years, that pirate corn is a bit more palatable.

Enjoy, 

## coming soon: september 2005

Here's what our editors are preparing for the next issue of *MacAddict*.

Digital music, digital video—everything available on demand. We'll show you how to use your Mac to **build a home media center**. Our monthly Field Guide will decode .PPM, .YUV, .SWP, and a ton of other **cryptic file types**. And don't miss this year's **Geek Quiz**, your chance to establish your übergeek cred—or lack thereof. We'll also show you how to make your **PlayStation Portable play nice with your Mac**, share our best **panorama-photo secrets**, and find yet another use for PCV pipe: a **homebrew Steadicam rig**! Finally, we'll take a look at Apple's **Final Cut Studio** suite, Canon's **Rebel XT**, MacSoft's **First to Fight**, and a whole lot more.

## STAFF RANTS

Q. What's a better bargain today than it was a few years back?



**Roman Loyola** SPUDS MACKENZIE FAN  
**What's a better bargain today than it was a few years back?**

Today, there seems to be a lot of decent cheap beer around, especially compared to my college days, when all we could afford was Blatz Milwaukee 1851—although after the first couple of brews, good and bad beers taste the same to me.



**Sean Molloy** PARTICIPLE APPRAISER  
**What's a better bargain today than it was a few years back?**

Talk. It's always been cheap, but now that we've got the Internet, it's either free or totally worthless.



**Mark Rosenthal** MR. GUMS  
**What's a better bargain today than it was a few years back?**

A few years ago—and on my dentist's urging—I spent \$70 on a fancy electric toothbrush with a German name. Now you can pick them up for five bucks in the Crest and Colgate aisle. Dental hygiene for the masses!



**Niko Coucouvanis** PRINCE O. PALS  
**What's a better bargain today than it was a few years back?**

Me. Back in my day, values like honor, integrity, and virtue meant something. Having long since sold out my youthful idealism, those "REFINANCE NOW!!" spams are looking pretty good.



**Peter Marshutz** CHEAP  
**What's a better bargain today than it was a few years back?**

I love a good bargain! And there are a few good ones around today. Phone service, both local and long distance, is much cheaper. High-speed DSL Internet connections cost less (but cable TV costs more). Speaking of televisions, they're really cheap these days, along with VCRs and DVD players.



**Jake Widman** FROOGLE GOURMET  
**What's a better bargain today than it was a few years back?**

Music, because you can buy Gwen Stefani's insanely catchy "Rich Girl" from the iTunes Music Store without having to take the annoying "Hollaback Girl" and the rest of *Love, Angel, Music, Baby* along with it. Ninety-nine cents versus \$13.98—that's a 93 percent savings.



**Max Ichthyophage**  
**What's a better bargain today than it was a few years back?**

When sushi first appeared on the scene, it was a pricey delicacy. Nowadays, I can gorge myself at the local all-you-can-eat sushi smorgy for just a few bucks—a boon to all us frugal fugu-philes.

# Clicks well with others

\$39.99



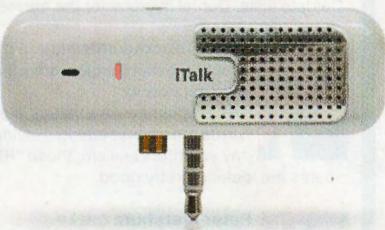
## AirClick

### Remote Control for iPod

- Control your iPod, iPod mini, or computer from up to 60 feet away
- Uses RF signals that travel through walls for remote control use anywhere in the house
- Tiny remote attaches to backpack, bike, steering wheel - anywhere for on-the-go control



\$39.99



## iTalk

### iPod Voice Recorder

- Internal microphone and laptop quality speaker
- Connect external microphone or headphones
- Passthrough jack for headphones or additional speaker
- Automatic level control for perfect recordings

\$14.99



## Lapel Mic

### Multipurpose Stereo Microphone

- Self-powered microphone with stereo-quality sound
- Swivel clip for easy attachment
- Connects directly to iTalk, iMic, or PowerWave

\$35



## iTrip

### FM Transmitter for iPod

- The only FM Transmitter designed exclusively for the iPod & iPod mini
- Powered from the iPod - no batteries necessary
- Choose any empty station from 87.7 to 107.9, and change your iTrip stations directly from the iPod

\$19.99



## TuneJuice

### Battery Backup for iPod and iPod mini

- Provides up to 8 hours of additional power to iPod
- Uses any disposable or rechargeable 9-volt battery
- Carry emergency iPod power wherever you go
- Works with any dockable iPod or iPod mini

\$29.99



## iVault

### Aluminum Case for iPod shuffle

- Elegant, protective enclosure for iPod shuffle
- Available in Silver, Purple, Blue and Red
- Four screws ensure that your iPod shuffle is completely secure and only comes out of the iVault when you want it to
- Includes 36" USB cable for connectivity while your iPod shuffle is protected

\$39.99



## iMic

### USB Audio Interface

- Adds stereo audio inputs and outputs to any USB equipped Mac or PC
- Includes everything needed to record albums and tapes to make MP3s and CDs
- Plug-and-Play simple, no install required

\$79.99



## RoadTrip

### FM Transmitter, Charger, and Cradle

- Power and charge an iPod or iPod mini from any 12-volt cigarette lighter
- RoadTrip transmitter module works separately as an FM transmitter for your home computer
- Transmits on a full range of frequencies from 88.1 to 107.9

\$69.99



## radioSHARK

### AM/FM Radio with time-shift recording

- AM/FM radio for your Mac or PC
- Record your favorite programs while you listen or schedule recordings for later
- Easily transfer recordings to iTunes
- Pause and resume live radio or scroll back in time and record

\$45

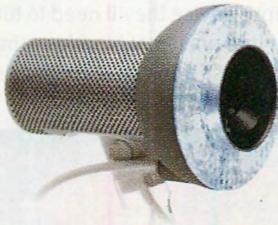


## PowerMate

### USB Multimedia Controller Knob

- Eliminates repetitive keystrokes
- Great control for iTunes, iMovie, and GarageBand
- Programmable for any application
- Now in Brushed Aluminum and Black

\$39.99



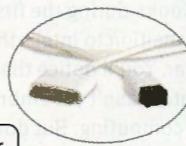
## SightLight

### FireWire Light for iSight

- Custom-designed Fresnel-based lens diffuses light to even out shadows
- Auto setting automatically senses the amount of ambient room light and adjusts its output accordingly
- Shares the iSight's FireWire connection

\$14.99

\$19.99

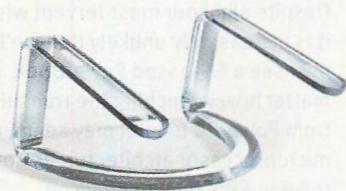


## Dock400 & Dock800

### Dock Cables for iPod

- Take advantage of the FireWire 800 or FireWire 400 port on your computer – no more unplugging another device to sync your iPod
- Charges and syncs your iPod or iPod mini
- Connects to iPod or iPod Dock

\$39.99



## iCurve

### Invisible Laptop Stand

- Keeps laptop cool with maximum air circulation
- Raises laptop screen to the perfect height and creates room on the desktop for an external keyboard and mouse
- Fits all Apple PowerBooks and iBooks

# CHANGE IS GOOD

Mac OS X86? Pentimac? Mactel? Whatever you call Intel-based Macs, the transition to them should be a smooth one—for some.

**H**indsight is always 20/20. In retrospect, Apple's announcement that it would be moving the Mac to Intel processors was inevitable. Two inescapable facts: First, the G4 (manufactured by Freescale, née Motorola) was a fine chip in its day, but it's inarguably underpowered when compared to its current competitors—not to mention the chips that Intel has on its drawing boards. Second, the G5 (manufactured by IBM)—although a solid performer—has failed to reach its stated performance goals and remains a toasty little devil, unsuited for life in a laptop. Despite all of our most-fervent wishes, it is increasingly unlikely that we'll ever see a G5-based PowerBook. No matter how wrenching the transition from PowerPC to Intel may seem, a microprocessor architecture is not a religion—it's time to move on.

**What's not happening.** Let's immediately get the Big Burning Question out of the way: The move to Intel does *not* signal a return to the clone wars—an Apple spokesperson made it abundantly clear to us that nope, no way, sorry buster, not a snowball's chance in Qatar will Apple allow Mac OS X to run on non-Apple PCs. Exactly how they will prevent some enterprising übergeek from running OS X on a generic

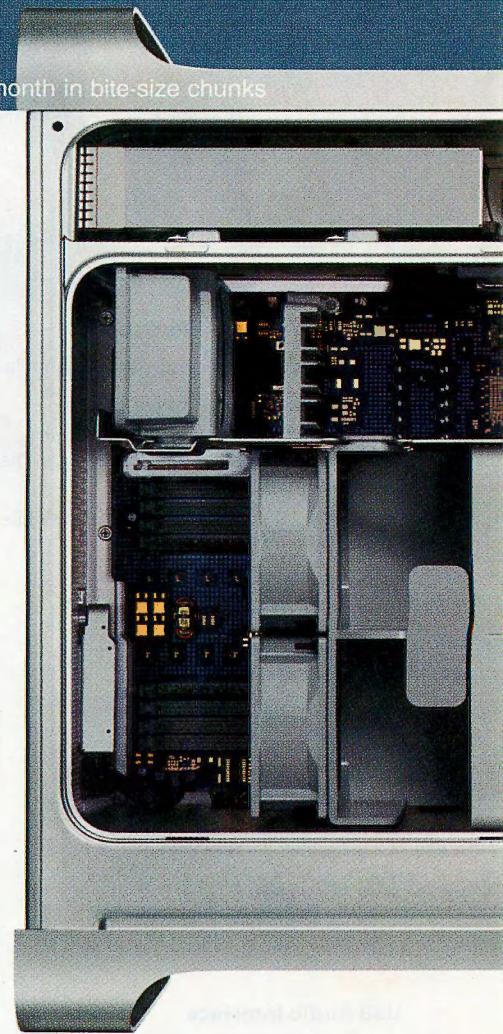


Coming soon to a Mac near you!

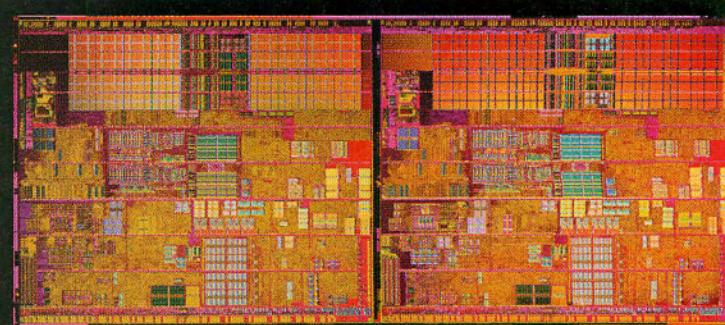
peeeeee, however, the spokesperson wouldn't say—and we've talked with plenty of top-flight PC tweakers who are itching to face the challenge. As far as running Windows on an Intel-based Mac goes, the same spokesperson told us that Apple "won't preclude" anyone from running Windows on one, although it also won't provide any support for such an endeavor. Seems fair.

**The chips to watch.** Although Apple hasn't announced which Intel processors will be going into what Macs, the smart money is betting that we'll see a low-power, cool-running, 32-bit dual-core processor (code-named Yonah) appear in low-end Macs and 'Books during the first phase of the transition to Intel—that is, early next year. You'll notice that we said "32-bit"—Intel hasn't yet embraced 64-bit mobile computing. But don't fear—it's rare that a low-end Mac or 'Book needs

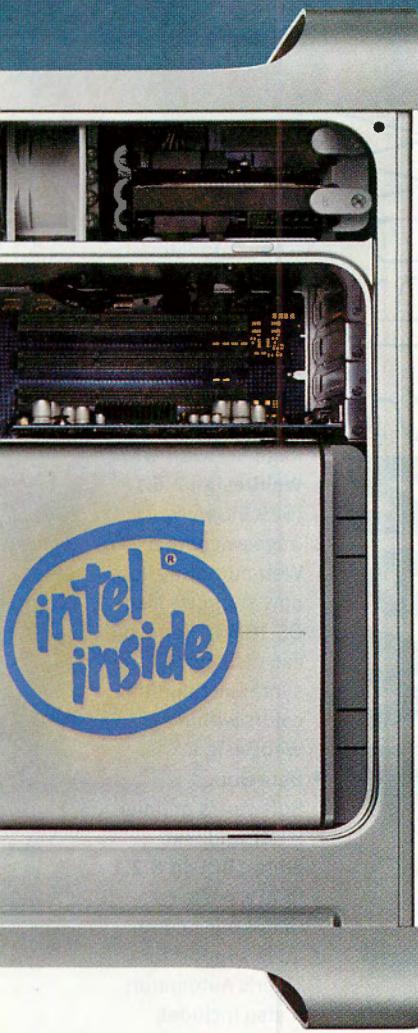
64-bit power, and Intel's redesigned-from-the-ground-up 64-bit dual-core desktop chip, Conroe, should be available in Power Macs by late 2006 or early 2007—its mobile counterpart, Merom, should find its way into high-end PowerBooks around the same time.



**Be prepared.** Apple has been preparing for a switch to Intel for some time—in fact, every version of Mac OS X has also been compiled to run on Intel's X86 architecture. (Yes, all those supposedly wacky rumors were actually true.) The upside of this preparedness is that Apple has armed its loyal army of software developers with the solid tools and in-depth advice they'll need to turn their apps into universal binaries—that is, to make those apps able to run on *both* PowerPC and Intel processors.



The dual-core Pentium D—it's two, two, two processors in one!



PHOTOGRAPH COURTESY OF APPLE

That's not to say, however, that it'll be brain-dead simple for every app to be converted into a universal app—how easy the conversion will be depends on the type of app. Platform-independent apps, such as those written in Java, will run just fine with no tweaking at all. BSD Unix apps should merely need to be recompiled. Apps written in Apple's Mac OS X-specific Cocoa development environment may require some minimal-to-moderate code tweaking before recompiling, but apps written in the OS

9/OS X-hybrid Carbon development environment may require some serious under-the-hooding before they're ready to be recompiled as universal binaries. Unfortunately, these include most apps you use daily—Photoshop and Microsoft Office, for example. Fear not, however—Adobe, Microsoft, and others will undoubtedly put in the required effort.

The biggest challenges, however, face developers who have peppered their code with instructions that target what Apple marketing calls the Velocity Engine and Apple engineering calls AltiVec—and that includes most pro-level content-creation apps. Similar hurdles face those who have rigorously optimized their code to take advantage of PowerPC-only architectural idiosyncrasies. Those poor unfortunate souls may be in for a painful transition.

**Back to the future.** Apple is also providing a bridge to the past with Rosetta, an app translator that'll allow PowerPC-only apps to run on Intel-based Macs. There are, however, trade-offs. The most obvious is performance—there's no way on God's green earth that any translator could run an app as fast as it would run on a comparable native processor. Also, Rosetta only translates Mac OS X applications that'll run on a G3 PowerPC—apps that require a G4 or a G5 need not apply (fortunately, those are few and far between). Finally, Rosetta won't run apps that were built for Mac OS 8 or Mac OS 9—and when we asked Apple's spokesperson if that meant Intel-based Macs will be the end of the line for Classic mode, she declined to comment but noted that Apple Senior VP Phil Schiller said Classic is "not very high on the priority list." Our take? Hello, Intel; g'bye, Classic.—*Rik Myslewski*

## ONE CHIP, TWO PROCESSORS

One goodie that Intel brings to the Apple/Intel lovefest is *dual-core* technology. In a nutshell, a dual-core chip is one with two independent processors on the same slice of silicon. The good news is that such a chip provides essentially the same advantages of a dual-processor computer such as our beloved Power Mac dualies. The bad news is that Intel's current dual-core designs don't allow the two cores to communicate with each other at the on-chip level. What's more, Intel's next dualie, Presler, won't even include two processor cores on the same chip; instead, it will have two separate processors in the same package. Don't expect dual-core processors that can swap data and instructions at the core-to-core level until later. When might that be? The oracle is silent.

## NEW STUFF

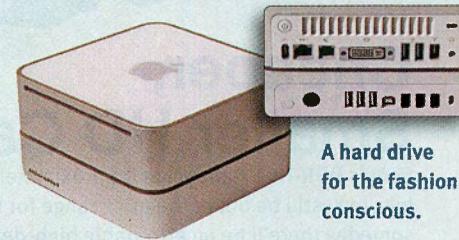
### ► HUBBA HUBBA

**Hi-Speed USB 2.0 and FireWire 6-Port Hub for Mac mini**

\$58.99 • [www.belkin.com](http://www.belkin.com)

Available: Now

This hub comes with four USB 2.0 and two FireWire 400 ports, and it's designed to either rest on top of or sit underneath your Mac mini. The front of the hub contains one of each type of port for connecting thumb drives, digital cameras, and other devices.



A hard drive for the fashion conscious.

### ► MATCHING EXTERNAL DRIVE

**miniMate**

\$149 to \$499 • [www.micronet.com](http://www.micronet.com)

Available: Now

This external hard drive sits beneath your Mac mini and comes with three FireWire 400 and four USB 2.0 ports. Capacities range from 80GB to 400GB.

### ► SHUFFLE SPEAKERS

**ShuffleStation**

£34.99 (\$66.64 at press time)

[www.podgear.net](http://www.podgear.net) • Available: Now

This portable speaker system plays audio from your iPod shuffle. It runs on four AAA batteries or from an AC adapter—but since a British company makes it, you'll need an Americanized AC adapter from your neighborhood Radio Shack.



Make your iPod shuffle be heard.

Give your Mac mini a USB and FireWire boost.

IMAGE COURTESY OF BELKIN

## DROOLWORTHY

Sexy Stuff We Can't Wait to Get Our Mitts On

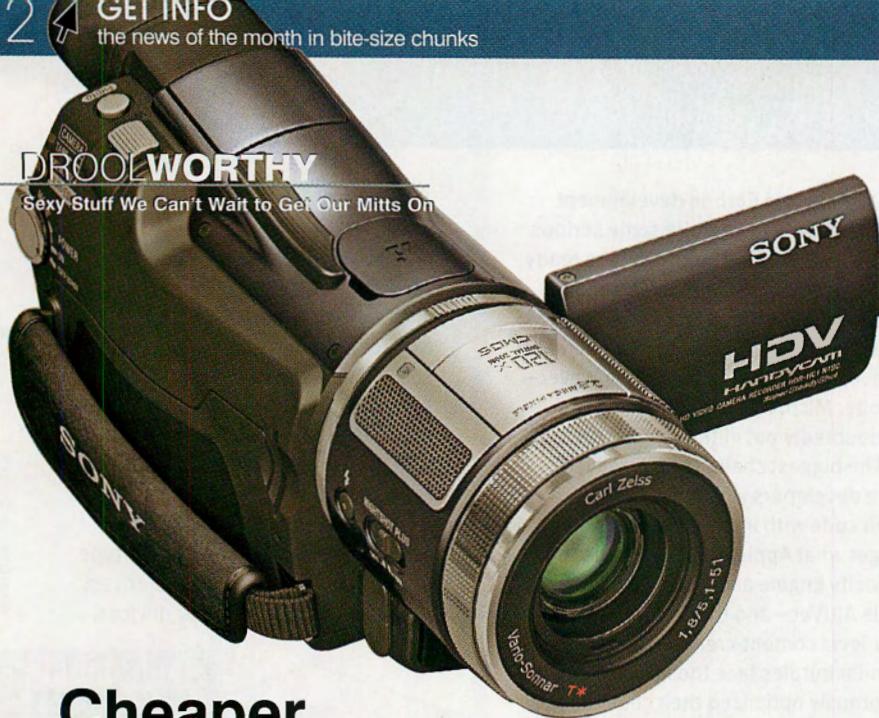


IMAGE COURTESY OF SONY

## Cheaper, Smaller HD Camera ↑

Sony's **HDR-HC1 Handycam** (approximately \$2,000, [www.sony.com](http://www.sony.com)), coming in July, may still be out of the price range for the masses, but it gives us hope that someday there'll be an affordable high-definition digital-video camera for the proverbial "rest of us." The 1.5-pound camera captures video using 1080i HDV, and you can switch between 16:9 and 4:3 aspect ratios. The camera's 2.7-inch LCD doubles as a touchscreen for accessing menu options.

## iTunes Liftoff →

Griffin Technology's **RocketFM** (\$39.99, [www.griffintechnology.com](http://www.griffintechnology.com)) is a USB transmitter for your Mac. You can use it to broadcast audio over an FM signal; any radio or stereo tuner within a 30-foot range should be able to pick up the signal. You can choose any FM frequency from 88.1MHz to 107.9MHz.



IMAGE COURTESY OF GRIFFIN TECHNOLOGY

## What's New



INTERNET



One of Bubbler's several templates.

- **Realsmac Software's RapidWeaver 3.1.1** (\$34.95, [www.realmacsoftware.com](http://www.realmacsoftware.com)), a tool for creating Web sites, now has XHTML and CSS support, .Mac publishing, a Paste As Plain Text function, and more.
- **Rage Software's WebDesign 2.6.1** (\$29.95, [www.ragesw.com](http://www.ragesw.com)), a Web-authoring app, now supports Mac OS 10.4 (Tiger); you can also customize syntax-highlighting colors within WebDesign.
- **Bare Bones Software's premier HTML and text editor, BBEdit 8.2.1** (\$199, [www.barebones.com](http://www.barebones.com)), adds support for Tiger's Automator; it also includes maintenance updates.
- **Shrook** (\$24.95, [www.fondantfancies.com](http://www.fondantfancies.com)), an RSS newsreader, adds iTunes and iPod podcast integration, support for Spotlight and self-signed HTTPS certificates, and more.
- **Maxum Development's Rumpus FTP 4.1** (\$249 to \$1,494 for Standard licences, \$395 to \$2,370 for Professional licences; [www.maxum.com](http://www.maxum.com)) lets you set up your Mac as an FTP server. It now supports Web File Manager Extensions, user tracking, activity graphs on recent server activity, user tracking and reporting, and other features.
- **Five Across's Bubbler** (pricing dependent on service plan, [www.bubbler.com](http://www.bubbler.com)) is a blogging app and hosting service that uses a drag-and-drop interface.
- **Vara Software's Wirecast 2.0** (\$449.99, [www.varasoftware.com](http://www.varasoftware.com)) lets you broadcast a live video stream over the Internet. New features include support for H.264, chroma-key, and multiple output.—*Michelle Victoria*

# E3 2005: ELECTRONIC ENTERTAINMENT FOR EVERYONE

Held in May in Los Angeles, E3 (Electronic Entertainment Expo) is the world's largest trade show dedicated to the latest and greatest developments in games, interactive entertainment, and related products. As you might guess,

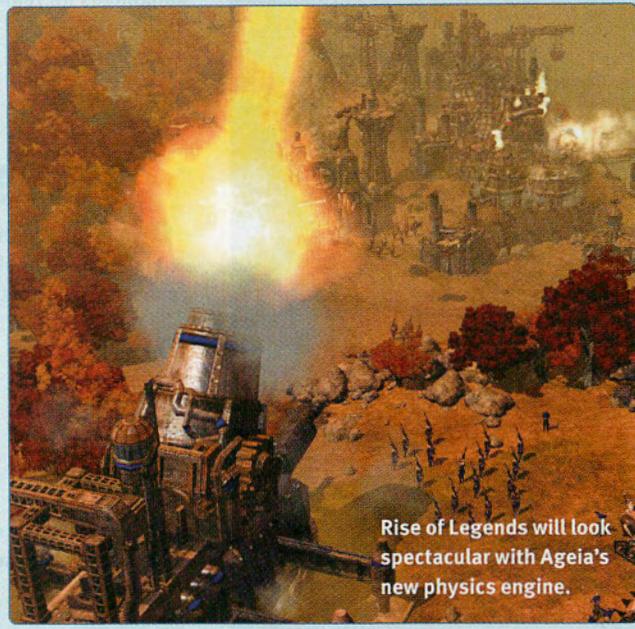
the show is half hard facts and half smoke and mirrors—so we fought our way through the giant marketing mosh pit to serve up the real Mac beef from this year's frenetic fast-food fest.—*Matt Osborn*

## G5 BEHIND THE CURTAIN

► With Microsoft's **Xbox 360**, Sony's **PS3**, and Nintendo's **Revolution** all revealed for the first time at this year's E3, the upcoming home-console firefight dominated this year's show. All three systems pack custom-built processors from IBM; in fact, Microsoft and Sony have both fessed up to building their hardware around a PowerPC-based core (similar to the one inside your Power Mac G5) clocked at 3.2GHz. All three consoles have Wi-Fi capability and USB 2.0 ports. The audience at the Xbox 360 press conference gasped when Microsoft showed a diagram of the console connected to an iPod, but that wasn't the only shock at E3; players noticed that an Xbox 360 unit in Microsoft's booth seemed to be running a demo while it was turned off. Laughter erupted when the crowd discovered the demo was actually powered by two Power Mac G5 towers hiding inside the kiosk.—*MO*



There's a PowerPC powering this puppy.



Rise of Legends will look spectacular with Ageia's new physics engine.

## MAKE GAMES, NOT WAR

► At E3, **Ageia Technologies** ([www.ageia.com](http://www.ageia.com)) announced plans to bring its sophisticated, game-centric SDK (software development kit) to the Mac. Several game developers, including Epic Games, Sony, Ubisoft, and Big Huge Games, have already announced their support of Ageia's physics technology. With the new Mac SDK coming and publisher Aspyr showing support for the physics engine, your chances of getting more—and better—Mac games just got more better.—*MO*

## NEW INPUT DEVICES

- Nyko ([www.nyko.com](http://www.nyko.com)) is working on a wireless version of its Mac-compatible **Air Flo EX** gamepad.
- Razor showed the **Diamondback Plasma** (\$59.99, [www.razerzone.com](http://www.razerzone.com)), a high-precision 1,600-dpi optical mouse with seven mappable buttons.
- MonsterGecko's **GeckoBlaster Gyro Controller** (price to be determined, [www.monstergecko.com](http://www.monstergecko.com)) is a wireless gun controller—you point the barrel at your onscreen opponents while moving your character with the onboard thumb stick.—*MO*



Gives new meaning to the term point-and-shoot.



## PUT YOUR MONEY WHERE YOUR MOUSE IS

► So you think you can create better games than the ones at E3? Then prove it by making 'em with **Power Game Factory**. Create 2D platformers (think Mario, Sonic, or the Web's Alien Hominid) with sprite graphics and modifiable physics. Complete your game, compile it into a self-contained application, and distribute it any way you want—no licensing or other strings attached. MacAddict Max's Madcap Moonshine Mania, here we come!—*MO*

<b>Power Game Factory</b>
Price \$44
Available Now
Sawblade Software <a href="http://www.sawbladesoftware.com">www.sawbladesoftware.com</a>

## iPOD CASE OF THE MONTH



Don't tread on us—but if you do, we can take it.



Not only are Slappa's ShockShell iPod mini cases (\$34.99, [www.slappa.com](http://www.slappa.com)) eye catching—they're protective, too, thanks to an outer layer of rubberized PVC, a middle layer of aluminum, and an inner layer of ethylene vinyl acetate (a light, tough foam found in running shoes). The Gridz (top), Little Wing (bottom), and other ShockShell designs come with a belt clip.—Michelle Victoria

**SUBMIT YOUR CASE** Whether your iPod case is a custom-made one-off or mass produced, you can submit it for Case-of-the-Month consideration—just send it to iPod Case of the Month, MacAddict, 150 North Hill Dr., Ste. 40, Brisbane, CA 94005. Please note that we cannot return cases.

## SHAREWARE PICK OF THE MONTH

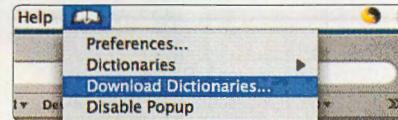
**LiveDictionary** [www.eloquentsw.com](http://www.eloquentsw.com) \$25

LiveDictionary lets you hover your cursor over a word in Safari to see a pop-up definition. Here's how to add dictionaries of other languages for real-time translation.

—Andrew Tokuda

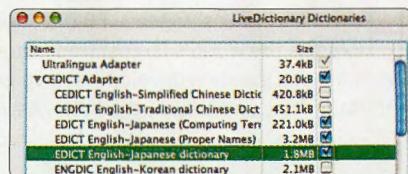
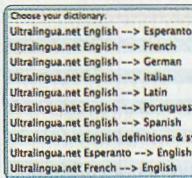


LiveDictionary 1.1.6

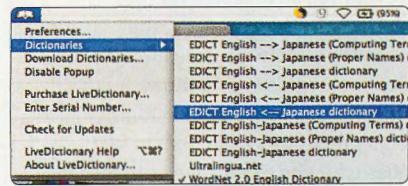


1 From the LiveDictionary icon (it looks like a book) in the menu bar, choose Download Dictionaries.

2 You'll see a window with already-installed dictionaries. If you don't see the language you're looking for, click the Download Dictionaries button to get more.

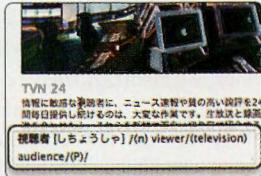


3 From the list, choose the dictionaries of the languages that you want to be able to access.



4 Once downloaded, choose the new dictionary from the LiveDictionary icon.

5 Hover over a word, and you get real-time translation.



## Bug of the Month

## UNINSTALL TIGER, REINSTALL PANTHER



Troubleshooting Solutions for the Macintosh

When problems appear after you've updated to Mac OS 10.4 (Tiger) and all known workarounds fail, you might have to backpedal to Mac OS 10.3.x. Here's how.

**1. BACK UP** Before you do anything, back up your data or create a bootable backup of your current Mac OS 10.4 (Tiger) installation, problematic as it may be—one easy method is to use SuperDuper! (\$19.95, on the Disc, or download from [www.shirt-pocket.com](http://www.shirt-pocket.com)). If there is a problem during your Panther reinstallation, your valuable data will be safely intact in its current form.

**2. PREPARE TO REINSTALL PANTHER** This part's easy. Insert your Panther installation disc—you kept it in a safe place, right? Restart your Mac and hold down the C key to boot from the disc. Follow the onscreen instructions, and after accepting the license agreement, click Options.

**3. ARCHIVE AND INSTALL** Now it gets a lil' complicated. You want to perform an Archive And Install process. This moves your existing system files to a special archive in case you need to access them (you can't boot from archived system files), then installs Panther. If you want to import your network settings and existing user accounts with home folders, select Preserve Users And Network Settings. Click OK.

**4. UPDATE** You should bring your Panther installation back up to the revision number you had right before you installed Tiger. This simply requires the Mac OS 10.3.9 combo updater, available from Apple at [www.apple.com/support/downloads/macosxcombinedupdate1039.html](http://www.apple.com/support/downloads/macosxcombinedupdate1039.html). Be prepared for a long download—it's a 117MB heavyweight. After the update process is complete, you'll have a Panther installation that (hopefully) doesn't suffer from Tiger's problems.



# The fastest way to learn a language. Guaranteed.™

Finally, a different approach that has millions of people talking. Using the award-winning Dynamic Immersion™ method, our interactive software teaches without translation, memorization or grammar drills. Combining thousands of real-life images and the voices of native speakers in a step-by-step immersion process, our programs successfully replicate the experience of learning your first language. Guaranteed to teach faster and easier than any other language product or your money back. No questions asked.



**Spanish**  
(Latin America or Spain)  
**English**  
(US or UK)

**French**  
**Italian**  
**Portuguese**

**German**  
**Russian**  
**Chinese**

**Japanese**  
**Indonesian**  
**Vietnamese**

**Thai**  
**Korean**  
**Hindi**

**Arabic**  
**Hebrew**  
**Greek**

**Turkish**  
**Danish**  
**Swahili**

**Polish**  
**Welsh**  
**Dutch**

**Swedish**  
**Pashto**  
**Latin**

**Award-winning software successfully used by U.S. State Department diplomats, Fortune 500® executives and millions of people worldwide.**

Step-by-step immersion instruction in all key language skills:



**Listening** - Rosetta Stone uses native speakers and everyday language to develop your understanding of the spoken language naturally and easily.



**Reading** - Text exercises develop your reading skills by linking written language to real-life objects, actions and ideas.



**Speaking** - Speech-recognition feature records, diagrams and compares your voice to the native speaker's, grading your pronunciation.



**Writing** - Dictation exercises evaluate your spelling, syntax and punctuation.

**Each fully interactive course includes:**

- CD-ROM curriculum with 20 activities in each of 92 lessons
- Previews, comprehensive exercises and testing for each lesson
- Automated tutorials that "learn" where you need extra help
- Curriculum Text and 45-page User's Guide



**SAVE  
10%**

Level 1 Program  
Regularly \$195.00

Level 2 Program  
Regularly \$225.00

Level 1 & 2  
Regularly \$329.00

**BEST VALUE!**

Your Price  
**\$175.50**

Your Price  
**\$202.50**

Your Price  
**\$296.10**

Personal Edition. Solutions for organizations also available.

Call today or buy online  
for a 10% discount.

**RosettaStone.com/mas085**  
**1-800-399-6162**

Use promotional code mas085 when ordering.

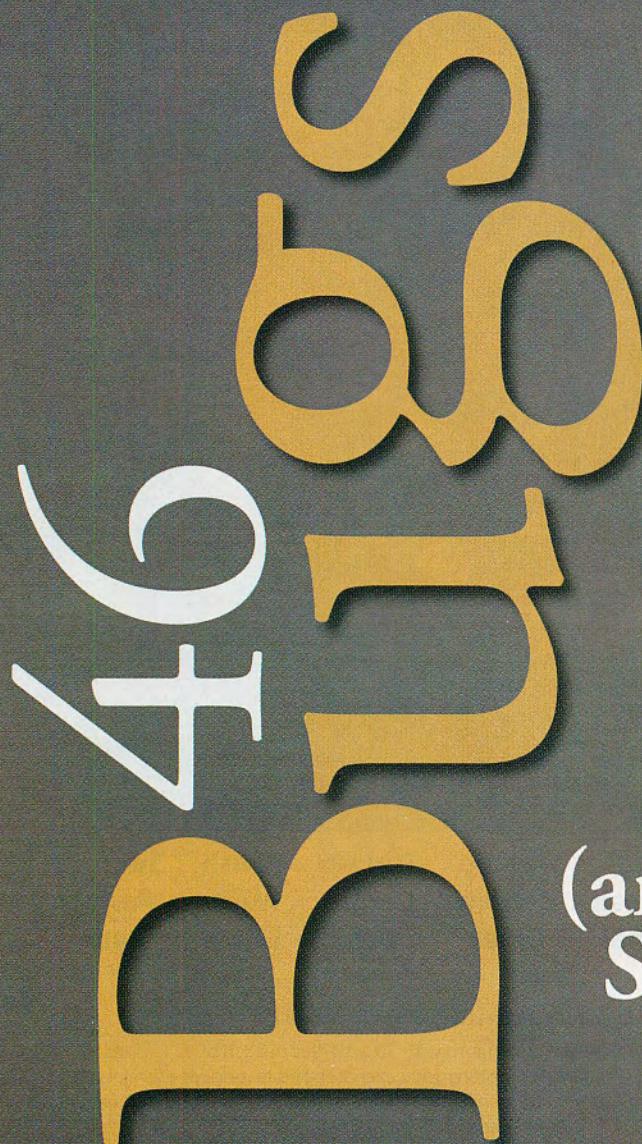
**RosettaStone®**  
Language Learning Success

**"...your program is the absolute best, bar none. I am shocked at how quickly I learn."**

*- Michael Murphy  
Texas, USA*

**"Stupendous...the juxtaposition of text, sound and picture was masterful. The quality of both sound and graphics was first rate."**

*- The Boston Globe*



## (and How to Squash Them)

**Help your Mac be all that it can be with our fifth annual squishapalooza.**

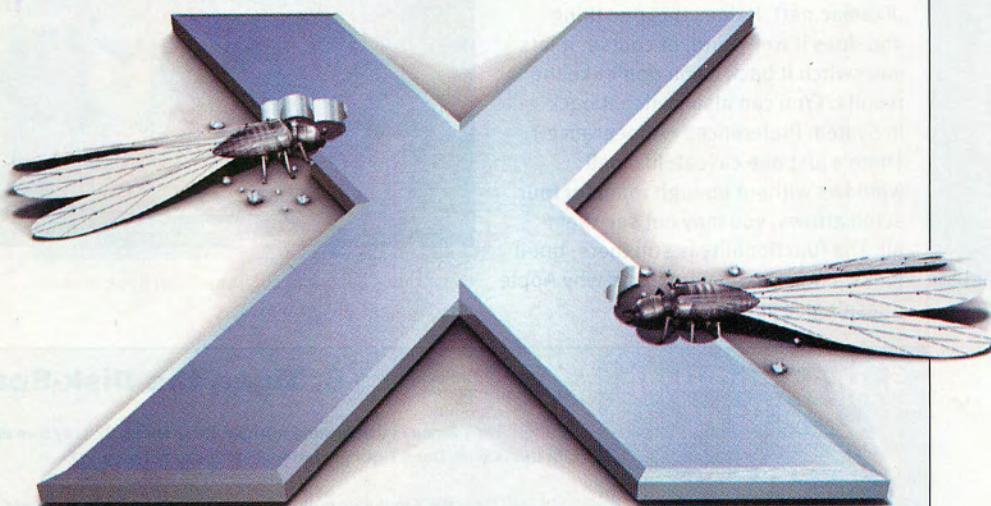
BY DEBORAH SHADOVITZ WITH SHELLY BRISBIN, DAVE HAMILTON, SCOTT KNASTER, JIM MITCHELL, AND JAKE WIDMAN ILLUSTRATIONS BY OLIVER WOLFSON

ADMIT IT: Your Mac's not perfect. Sure, it's The World's Greatest Personal Computer™ and all that, but it has its quirks. Operating-system glitches, hardware hassles, networking niggles, application gotchas, and any number of pesky annoyances that aren't bugs, per se, but which can prevent you from working just the way you want to—and isn't getting your Mac to obey your every

whim the true path to computing bliss?

So dig into the following pages, where we help you get your Mac to toe the line. Some of our tips are Deep Geek, some are as easy as pie—but all are designed to improve your life. Well, they won't help you get rock-hard abs or woo that cutie in accounting, but they are guaranteed to improve your most important relationship—the one between you and your Mac.

# Mac OS Maladies

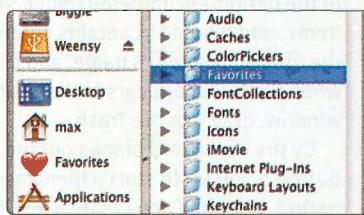


## 1. Come Back, Favorites!

**PROBLEM:** Apple took Favorites away in Panther. I was hoping they'd give it back to us in Tiger, but nope, no Favorites in the Sidebar and no Add To Favorites in the File menu. This now bugs us for a second year.

**SOLUTION:** We figure that Apple thinks the entire Sidebar is basically a Favorites substitute. But even so, the Favorites folder still exists, and you can still use it. You'll find it in your `/user name/Library` folder. To access it, Dock the folder or drag it into the Sidebar. Unfortunately, to add favorite items to it, you'll need to create aliases and put them in the folder yourself: The File-menu command for adding to Favorites has been replaced with Add To Sidebar.

By the way, the Favorites folder always has a plain icon when it's in your Library; when you move it to the Sidebar, it appears as a heart.



I  Favorites.

## 2. I Just Want a New Folder

**PROBLEM:** Command-N stopped working. It used to create a new folder, but now I get a whole window—with no new folder in it.

**SOLUTION:** That's not a bug; that's a feature. Seriously. Or at least it's a feature as far as Apple's concerned—Cupertino must have figured that people need to open a Finder window more often than create new folders, so they changed the New Folder command to Shift-Command-N a long time ago. If you don't like it, you can change it back with John Gamble's N Commander utility, which is available at [www.versiontracker.com](http://www.versiontracker.com) and [www.macupdate.com](http://www.macupdate.com).



### 3. Scroll-Arrow Relocation Program

**PROBLEM:** The Appearance pane in System Preferences lets me put one of my scroll arrows at the top of the scroll bar and one at the bottom or put both arrows together at the bottom. Seems to me I should be able to put both arrows in both places. Any chance?

**SOLUTION:** Like so much else, the capability for this is built into OS X, but for some reason, Apple doesn't offer this choice in the scroll-bar preferences. You can, however, set this yourself in the Terminal by typing `defaults write "Apple Global Domain" AppleScrollBarVariant DoubleBoth`.

Alternatively, you can use a simple utility called Scroll Switcher, which is made by Fixamac Software (free, [www.fixamac.net](http://www.fixamac.net)). It does this one thing and does it well—and, of course, it lets you switch it back if you don't like the results. (You can also switch it back in System Preferences > Appearance.) There's just one caveat: In small windows without enough room for four scroll arrows, you may not see them all. The functionality is still there, but it looks a bit odd—maybe that's why Apple doesn't give you the choice.



One simple Terminal command can double your complement of scroll arrows.

### 5. Drag and Drop Is a Drag

**PROBLEM:** When I want to drag a file from the Finder into a document—to attach it to a Mail message, for example, or to place a graphic in a Word document—I have to first line up my windows so I can see the source and destination at the same time. There must be an easier way.

**SOLUTION:** There is. Start dragging your file and, while still holding the mouse button down, press Command-Tab to bring up the OS X application switcher. Hold down Command and keep pressing Tab until you reach the application of the target document. Release Command and Tab but continue holding down the mouse button, then just drop your file into place. You can even create a whole new document mid-drag: Press Command-Tab to call up your target application, press Command-N to create a new page, and then drop your file.

There's another way, too: Start dragging your file and press F9 to invoke Exposé. Drag your file over the target window and either press F9 again or just wait—that window will pop to the front.

### 6. Tiger, the Disk-Space Hog

**PROBLEM:** Since I've upgraded to Tiger, I've noticed that my free disk space seems to be shrinking at a faster rate than usual. Does Tiger get fatter as it runs or something?

**SOLUTION:** OS X includes built-in maintenance scripts that should run daily, weekly, or monthly (depending on the script); they perform operations such as deleting temporary files and tidying up system logs—both of which can consume extra disk space. The problem you're probably running into is that with Tiger, these maintenance routines are being handled by the launchd daemon instead of the cron utility. Unfortunately, as of this writing, if you leave your computer on for a few days in a row, the scripts don't run as often as they should.

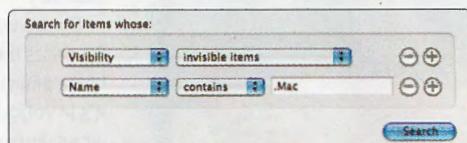
If you absolutely don't want to install anything extra on your Mac, your solution is to restart your Mac at least once a day. If you want the easiest fix, simply download the latest version of Anacron (free, [www.versiontracker.com](http://www.versiontracker.com)), a utility that checks every 60 minutes to see if the proper tasks have run.

### 7. Disappearing Files

**PROBLEM:** I just created a document in Word and saved it in a folder named .Mac that I created in Word's Save As dialog—now I can't find that folder.

**SOLUTION:** Remember the old joke about the guy who says to his doctor, "Doc, it hurts whenever I do this," and the doctor replies, "Well, don't do that"? Follow the doctor's orders: Don't start a folder name—or a file name, for that matter—with a period. Such names are reserved for the system, and folders and files with those names are invisible. Your file isn't lost, but you'll need to use the Finder's Find command (Command-F) to locate it; when you do, drag it to the desktop from the Search Results window to remove it from the offending folder. To get rid of the period-encumbered folder, set the Visibility search criterion in the Find dialog to Invisible Items, add a Name > Contains criterion with the offending folder's name, and click Search; when the folder appears in the Search Results window, drag it to the Trash.

By the way, Word blanks out the Save button if you try to start a filename with a period, but not if you create a new folder with the New Folder button.



An invisible folder can't hide from the Find command.

### 4. Where's My Custom Icon?

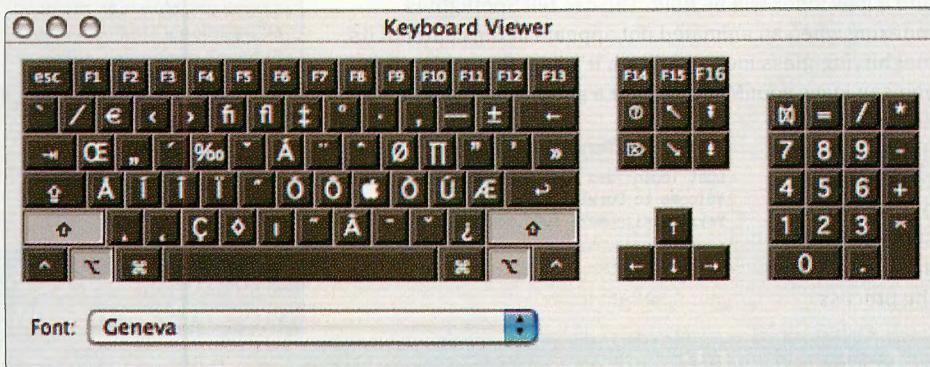
**PROBLEM:** I made a custom folder icon a while ago, but now I'm tired of it. I went through the steps to paste a new one, but it won't take.

**SOLUTION:** This bug seems to be somewhat squished in Tiger; however, it's occurred in all versions of OS X. Sometimes a new icon won't be accepted when you've already pasted a new one in before. The solution is to delete any existing customization before adding your new icon. Go through the same process you went through to add the custom icon before, but when you select the existing icon, first press Delete to remove it (that restores the generic folder icon), then copy and paste your new icon. If that doesn't work, select the original icon again and delete it, then try pasting the new one in the next time you reboot your Mac.

## 8. Special Characters

**PROBLEM:** I used to use Keycaps in Mac OS 9 all the time to find out where on my keyboard all those special characters such as trademark, euro, and umlaut were. With Keycaps gone, how do I find them without Option-typing every single key?

**SOLUTION:** Keycaps has been reborn (and improved a bit) as Keyboard Viewer, but it's kinda hidden. To enable it, go to System Preferences > International > Input Menu, and check Character Palette and Keyboard Viewer in the list that appears. A flag icon will appear in your menu bar. Click that flag icon to reveal a drop-down menu, and choose Show Keyboard Viewer any time you need it—hold down your modifier keys (such as Option and Command) to display the keyboard locations of special characters. When you select Character Palette from the flag icon's drop-down menu, you can browse all the special characters, grouped by type, until you find the one you're looking for.



We'll bet you didn't know that good ol' Geneva had so many hidden goodies.

## 10. Too-Mellow Menus

**PROBLEM:** I'm cool with Apple's menu-bar text being black (it's just text, after all), but for the menu-bar icons—Monitors, Bluetooth, Airport, Battery, and so on—black is just, well, too black. It just plain bugs me that Apple doesn't give us some color options for our icons.

**SOLUTION:** We agree. Happily, though, even if Apple doesn't give us colorful menu-bar icons, they also don't stop us from giving them color ourselves. You can colorize your own, but we'll make it easier for you by showing you where to get already-colored icons. Take a trip to [www.resexcellence.com](http://www.resexcellence.com), click the link to System Level Icons, then look for an icon set you like. Just download it and follow the instructions, which are generally to replace some image files in your /System/Library/CoreServices folder—after backing them up first, of course.

## 11. Fast User Switching Is a Washout

**PROBLEM:** Long ago, I created a custom calibrated profile for my monitor with the Display Calibrator assistant. All was well until I installed Tiger. Now, when I use Fast User Switching to change users and then switch back again, my screen ends up totally washed out. Only restarting seems to fix it. What's going on?

**SOLUTION:** What's going on is that your Mac is reverting to the Generic RGB Profile rather than using your custom one. The way to fix this bug permanently is to trick your Mac into thinking your custom profile is the Generic profile. To do this, navigate to the /System/Library/ColorSync/Profiles folder and drag Generic RGB Profile.icc to your desktop. (It'll be copied there rather than moved because it's a system file.) On the desktop, select the file's name and copy it. (You can't copy the original file's name because it's a system file.) Now locate your custom profile—it'll be in either /Library/ColorSync/Profiles or in /user name/Library/ColorSync/Profiles. You'll want to keep your custom file around under its original name for whenever this bug gets fixed, so make a copy of it. Select the copy's name and paste in the Generic's name; you now have a copy of your custom profile named Generic RGB Profile.icc. Finally, move this fake Generic profile into the home of the real Generic profile. You'll need to authenticate to do so, but once you do, your Mac will use your custom profile all the time.

## 9. Dock Different

**PROBLEM:** I love the Dock, but I want to get it more out of the way—put it at the bottom left, for example.

**SOLUTION:** It's not hard—if you're not scared of a little command-line fu. First, launch the Terminal. If your Dock is at the bottom of your display and you'd like it aligned left, or it's on the right or left and you want it aligned to the top, type defaults write com.apple.dock pinning start. Type killall Dock and then press Return (killall lets you see the result immediately). If your Dock is at the bottom and you'd like it aligned right, or it's on a side and you want it stuck to the bottom, use defaults write com.apple.dock pinning end. To place the Dock at the top, type defaults write com.apple.dock orientation top. If you like the result, just quit the Terminal. To return the Dock to the center, type defaults write com.apple.dock pinning middle.

Even after pinning the Dock this way, you can still use the standard Dock commands under the Apple menu to place the Dock on the Left, Right, or Bottom.

## 12. I Want My Toolbar Buttons!

**PROBLEM:** Before the Sidebar in Finder windows, Apple gave us buttons for things like Applications, Favorites, and Home folders in the toolbar at the top of every Finder window—and we were able to add our own, too. But starting with Panther, they took them away—I want 'em back!

**SOLUTION:** Yes, Apple moved a bunch of stuff to the Sidebar, but they didn't take away your ability to add your own items to the toolbar—you can add those icons (or any others) there if you want. To do so, open a Finder window, find the folder you wish to add, and then drag that folder to the empty area to the left of the search field. When you pause your drag in the middle of the toolbar, you may see a rectangular outline appear—you can drop your icon anywhere to the left or right of that rectangle. To remove the icon, press Option and drag the button off the toolbar.



## 13. Can't Spotlight Spotlight

**PROBLEM:** Spotlight doesn't show up as an application when I use Command-Tab, and its results don't appear in the list of Finder windows. I've found what I'm looking for—now how do I find Spotlight?

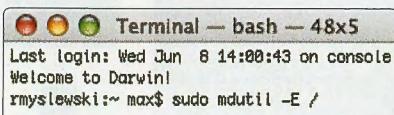
**SOLUTION:** That's not really a bug; Spotlight isn't actually an application. But by default, Spotlight has a shortcut (Command-Option-spacebar) to bring its windows forward. If that doesn't work, go to System Preferences > Keyboard & Mouse > Keyboard Shortcuts. Check and see if the Show Spotlight Window entry has a yellow caution icon beside it. The caution means the same shortcut is being used for more than one command. You can change the shortcut for either Spotlight or the conflicting command.

## 14. Spotlight Misses

**PROBLEM:** Spotlight did not completely index my drive. I can see files that it is not finding. What gives?

**SOLUTION:** It sounds as if your Spotlight index may not be complete. This could have happened if you manually stopped the indexing process or if Spotlight hiccupped during it somehow. Try deleting the old index and forcing Spotlight to generate a new one.

The easiest way to do this is in the Terminal. Type `sudo mdutil -E /`, then press Enter, and you'll be asked for an administrator password. After you type it in and press Enter again, the existing volume index will be removed, and a new index will be built. You can tell Spotlight is indexing when an animated dot appears in the center of its magnifying-glass menu-bar icon. It's best to do this when you can leave your Mac alone for a good chunk of time, not only because indexing is time consuming, but also to be sure you don't accidentally stop the process.



```
Last login: Wed Jun 8 14:00:43 on console
Welcome to Darwin!
rmyslewski:~ max$ sudo mdutil -E /
```

One simple line of Unix-speak will rebuild your Spotlight index.

## 17. Drive-Indexing Idiosyncrasy

**PROBLEM:** Spotlight's great—but not when you plug in an external drive (full of video, for example) and have to wait while that drive gets indexed. There is no Tiger Preference to prevent Tiger from indexing your external drives. What can I do to stop the waiting?

**SOLUTION:** There's no way to turn indexing off on a volume-by-volume basis—or even just to stop indexing altogether—but John Goodchild has released a free utility to help out until Apple adds the option. Spotless (donationware, [www.fixamac.net](http://www.fixamac.net)) lets you turn Spotlight off and on. (It edits the hostconfig file, which your Mac reads when it starts up.) Launch Spotless, click the button, and restart your Mac to run without Spotlight; launch it again, click the button again, and restart again to put Spotlight back in business.

The downside (aside from all the restarting)? Spotlight and Find won't work while Spotlight's off, either. If you're going to be plugging in that drive a lot, you may be better off letting it be indexed.

## 15. Finding Stuff the Old-Fashioned Way

**PROBLEM:** I have photos of my cat on my Tiger-equipped Mac, and want to look at only the JPEGs—but Spotlight won't let me search for both cat and jpg at the same time—and if I only search for cat, I also get files that aren't photos. How do I search for both of those criteria?

**SOLUTION:** Spotlight isn't mature enough for this type of search yet. However, the good ol' traditional Find (Command-F) hasn't gone away, although it looks quite different now in Tiger—and since you can have two Name > Contains criteria, you can search for files with names that contain both cat and jpg.

## 16. Custom Dock-Icon Conundrum

**PROBLEM:** It's nice that I can label my files and folders with color, but I can't see the label color if I put the file or folder in the Dock. I can't tell which folder is which unless I mouse over them to see their names appear. What am I doing wrong?

**SOLUTION:** You're not doing anything wrong—that's just the way it works. But you can identify your folders in the Dock by customizing them before docking them. First, find an icon that works for your folder—maybe the icon for an image file in the folder or something you downloaded from [www.iconfactory.com](http://www.iconfactory.com). Select the file with the icon you like, choose File > Get Info, click the icon, and choose Edit > Copy. Now select the folder you're customizing, choose File > Get Info, click the icon, and choose Edit > Paste. The new icon appears immediately in the Finder, but if the folder's already in the Dock, its icon there won't change. Drag the folder off the Dock, then back onto the Dock—presto, easy identification.

## 18. Improper Preview

**PROBLEM:** Sometimes images I create in Photoshop don't seem to preview correctly in Tiger's Finder. It seems to be random, and I can't figure out why. Any ideas?

**SOLUTION:** It turns out there is a bug in the Tiger that will prevent it from rendering previews accurately if the image is RGB, has a resolution of at least 300 dpi, and has at least one Alpha Channel embedded in it. There is no real workaround for this one other than converting your image to CMYK or removing the Alpha Channel.

The left preview is correct; the right one—from Tiger—is wrong. Bad kitty.



## 19. Apple-Menu Apathy

**PROBLEM:** I still miss being able to customize my Apple menu. Is there something I can use to put my applications and files in the Apple menu?

**SOLUTION:** Fortunately, the folks at [Unsanity](http://unsanity.com) have created [FruitMenu \(\\$10, <http://unsanity.com>\)](http://unsanity.com), which can give you your Apple menu back—with far more features such as customized Contextual Menus in the Finder.

There is another alternative to having a long Dock full of application icons, though, if that's all you're looking for. Create a new folder (either in your Applications folder or in Documents), and stuff it full of aliases of all the apps you use often. Dock that folder, and you've got a pop-up application launcher, just like you would in the Apple menu.

## 23. Permanent-Widget Syndrome

**PROBLEM:** Dashboard isn't working as advertised. I added a widget and it worked fine, but when I pressed F12 again to close the Dashboard, the widget got stuck on my desktop. Now I've got a permanent hula girl (free, [www.apple.com/downloads/dashboard/games/hulagirl.html](http://www.apple.com/downloads/dashboard/games/hulagirl.html)). How do I get rid of her?

**SOLUTION:** Ah! Rather than discover a bug, you've actually uncovered a hidden feature that we like to call permawidgets. When you activated Dashboard and dragged your new widget to the desktop, you must have accidentally pressed F12 (or whichever button you've set to activate your Dashboard) an extra time while you were still holding down the mouse button. To remove the permawidget from your desktop, drag the widget a little and keep the mouse button held down. Activate Dashboard, and then release the mouse button when Dashboard appears.

## 25. Asking Time for a Date

**PROBLEM:** Why the heck does the menu bar show me the time but makes me pick up my mouse, go to the menu, and click in order to see the bloody date? Isn't there a way to just display the day and date next to the time?

**SOLUTION:** This bugged us as well, until we found [wClock](http://www.wolfware.com) (donationware, [www.wolfware.com](http://www.wolfware.com)), a utility that gives you a choice of several predefined formats, such as day of week, date, or time. It also presents a floating calendar when you click the date info.



Wed 2:02 PM Max June 8 2005 2:02 PM

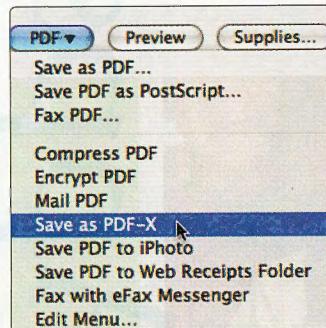
If only getting another kind of date were this easy.

## 20. Acrobat Drops Shadow

**PROBLEM:** I've been saving my iWork '05 documents as PDFs, and they look fine in Preview. But when I open them in Acrobat Reader to print them, the drop shadows on my text don't show up. Is there something I can do about this?

**SOLUTION:** There sure is. Instead of saving your document as a plain PDF, save it as a PDF-X document instead. Now Adobe Acrobat Reader will render your document just like Preview does (and it'll still look fine in Preview).

Save as PDF-X, and your PDFs will be Xtra spiffy.



## 21. I Burn (Discs) for Windows

**PROBLEM:** It's great that the Mac can burn CDs, but none of my CDs work on my Windows machine at the office.

**SOLUTION:** If you use Disk Utility to burn a CD, the result only works on a Mac. But if you pop in a blank CD and choose Open In Finder, you can drag content to it and burn it from there; you'll get an ISO disk that works fine in Windows.



Sure, she's cute—but do you want to stare at her widgety self all day?

## 22. Missed AirPort Connection

**PROBLEM:** I have AirPort turned on, and I'm in a place where I know there's a Wi-Fi network. My AirPort icon keeps flashing four gray bars, then four black bars, then four gray bars. It's not asking me for a password, so that can't be the problem. Is AirPort broken?

**SOLUTION:** AirPort isn't broken. The network you're trying to access is checking for your MAC (media access control) address and is only allowing access to known and approved MAC addresses. Have the host of the Wi-Fi network enter your MAC address in his base station's utility (AirPort Admin Utility > Access Control For An AirPort Base Station); you'll connect, and the flashing will stop.

## 24. Access to AppleScript Applet

**PROBLEM:** The AppleScript folder used to contain a handy applet that I could double-click to put an AppleScript icon in the menu bar for easy access to my AppleScripts. In Tiger, that applet is gone—did they just forget to include it this time around?

**SOLUTION:** No, they just changed how you get at it. Go to the /Applications/AppleScript folder and launch AppleScript Utility. In the resulting dialog, check Show Script Menu In Menu Bar. That's all there is to it.

# Naughty Apple Apps



## 26. Email-Message Clog

**PROBLEM:** I sent an email recently from Mail that didn't go through—and now Mail won't send any of my other messages, either.

**SOLUTION:** Prior to Tiger, once one Mail message failed to send correctly, the rest got stuck behind it—Mail kept trying to send the initial message and gave up on the rest of the contents of the Outbox. The solution to that conundrum was to move the problematic email into the Drafts folder or delete it so that it was no longer in the outgoing queue. Then, as if the emails getting stuck in the first place weren't bad enough, you had to open each remaining message and click the Send button to get it to go.

Tiger handles things better on all counts. In Mail 2.0, you don't even *have* an Outbox—at least under normal conditions. Typically, the Sent mailbox's name changes to Sending while mail is being sent. The Outbox only appears if there is mail waiting to be sent—when it contains a message that couldn't be sent when you first tried, for example. But now, while Mail still tries to send the problem message each time, it will eventually send the ones behind it. So if things seem stuck, just give Tiger some time.

## 27. Let's Address the Address Book

**PROBLEM:** I know I already have an Address Book entry for my friend's home email address, but I just got an email from her at work, and I want to add that address to her entry. I don't see any command in any menu for adding a second address. Do I have to cut and paste by hand?

**SOLUTION:** There is no menu command for this, but if you go to the message itself, click on the From name, and choose Add To Address Book, it will not only add the new address, but it will also open the entry for you to see the results. Thoughtful, no?



## 28. No Reply to Sender

**PROBLEM:** When I receive an email via an email list, it's rarely appropriate to reply to the list, which is what happens when I simply hit Reply. I want to just respond directly to the sender—y'know, the person who made the post. But Mail only lets me choose Reply or Reply All (which amounts to the same thing as Reply for an email sent to a list).

**SOLUTION:** Mail does have a Reply To Sender command—but it's hidden in a Contextual Menu within the message itself. Control-click the From name, and choose Reply To Sender from the menu that pops up.

## 29. Too Much or Not Enough

**PROBLEM:** I've got an iTunes playlist that I'm trying to burn onto a standard 700MB, 80-minute blank CD-R. My playlist is less than 100 MB. When I try to burn a CD, iTunes says there's not enough room. What's its problem?

**SOLUTION:** The problem is that there are two ways of measuring playlist size and two ways of burning a CD-full of music. Open iTunes > Preferences, click the Burning button, and we bet you'll find that the Disc Format is set to Audio CD. That means that iTunes is expanding your MP3 files to AIFF format to make a CD that'll play in a standard audio-CD player—they won't all fit on one CD when expanded like that. You can either remove some songs to get the time down to under 80 minutes (note the time at the bottom of the iTunes window), or you can change the settings in Preferences > Burning to make an MP3 CD. You'll be able to fit all your files (and more) that way, but you won't be able to play the resulting MP3 CD in most home-stereo or car CD players.

When burning an AIFF CD, total playlist time is what you need to know, not the total number of megabytes.



## 30. iTunes Rip and Smash

**PROBLEM:** I just imported a bunch of songs into iTunes only to find out that they've swallowed a huge amount of space. My tunes usually use up about a megabyte per minute, but these are 10 times that size! Has iTunes lost its mind?

**SOLUTION:** Has someone else been ripping CDs on your Mac? Sounds like it—and we bet that they changed the Importing setting (iTunes > Preferences > Importing) to AIFF Encoder from whatever MP3 or AAC setting you were using before. The first thing you need to do is revert to whatever setting you usually use. Then find the tunes ripped as AIFF and select them all; sort by Kind in the song list to make this easy (you may have to enable Kind in Edit > View Options.) Control-click any selected song and choose Convert Selection To your preferred encoder from the Contextual Menu that appears. Now, just wait patiently while iTunes chugs along, doing the conversion. When it's done, the original AIFF tracks will still be in your library. To get your disk space back, select the tracks in your library and choose Edit > Clear, then click Move To Trash. Empty your Trash, and wave bye-bye to those bloated files.

By the way, this might be a good time to find out who was using your Mac, assign a separate user account in System Preferences > Accounts, and password protect your own.

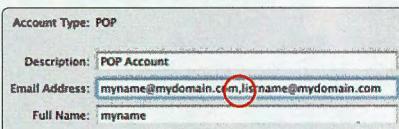


If you're importing CDs using the AIFF Encoder, you're wasting a ton of hard-drive real estate.

## 32. Need Another Email Alias

**PROBLEM:** I like to have several aliases for my email account. That way I can, for example, use `listname@mydomain.com` to subscribe to mail lists and `myname@mydomain.com` to correspond with friends. However, when I try to set up a separate account for my mail-list address in Mail, it won't let me—it says that the user and password are already in use. Well, they are—for my corresponding-with-friends address. But I need the separate account so I can post to the email list from the proper address. This seems like a real limitation in Mail.

**SOLUTION:** We thought so too, until we discovered the secret. Go back to the Accounts pane in Mail > Preferences, click the Account Information tab, and select your account. See the Email Address field? Place your cursor after the address that's already there, type a comma, and add the second address so it looks like this: `myname@mydomain.com, listname@mydomain.com`. Save this. Now, start a new message and check out the Account pop-up menu below the Subject field.



It just takes a well-placed comma to have two addresses for the same Mail account.

## 31. Address-Adding Funkiness

**PROBLEM:** When I select an email from a friend and choose Message > Add Sender To Address Book, the Address Book doesn't open to let me verify the addition or add other information, which drives me crazy.

**SOLUTION:** That drives us crazy, too. We're still waiting for a Mail preference that opens the Address Book entry upon addition, but until that day arrives, the best solution is to ignore the Message > Add Sender To Address Book menu command. Instead, move your cursor over the From name in the message itself, and click when the name becomes highlighted (notice that cute little arrow, too). Choose Add To Address Book from the menu that pops up. Now click again, and you'll see that the Add To Address Book item has changed to Open In Address Book—choose that to view the entry so you can verify the information. Note that if you use the Message menu to add the name to the Address Book, the Contextual Menu for the From field doesn't change—it still says Add To Address Book. If you're not careful, you could end up with duplicate entries.



## 33. Mail Won't Show Only Unread Messages

**PROBLEM:** In Microsoft Entourage, I can go to the View menu and choose Unread Only to make sure I don't miss any messages in my well-stuffed Inbox—hey, I'm both busy and popular. I know Mail shows unread messages in bold, but that's not good enough for me.

**SOLUTION:** There are two solutions to your problem: One is manual but kinda primitive, and one is more elegant and up-to-the-minute. First, the primitive way: Just sort your Inbox by message status (click on the gray dot in the column headers). That'll move all your unread messages to the top. Now, select all the unread messages (the ones with a blue dot next to them), and choose View > Display Selected Messages Only. When you're done dealing with them, choose View > Display All Messages to put things back to normal.

Tiger's Mail 2.0 offers a more elegant solution—one that's based on Smart Mailboxes. Create a Smart Mailbox (Mailbox > New Smart Mailbox), then choose Message Is Unread as the criterion—the new Smart Mailbox will contain only your unread messages. Being so very popular, you'll probably need several such Smart Mailboxes, each with an additional criterion based on where the message came from or who sent it.



Those messages you haven't read yet? Let Mail keep track of 'em for you with a Smart Mailbox.

## 34. iChat Distraction

**PROBLEM:** I want to be reachable for instant messaging in iChat AV, but if I keep iChat running, I'm tempted to chat when I should be working. I want people to know I'm available without having my Buddy List luring me into temptation.

**SOLUTION:** Sounds like you should install the iChat menu item. Go to iChat > Preferences > General and check Show Status In Menu Bar. Then quit iChat, click on the talk-balloon menu icon, and choose Available. Even though the iChat Buddy List won't be tempting you, your iChat buddies will be able to send you messages—and iChat will launch when they do.

# Hardware Hassles



## 35. Printer Pep Talk

**PROBLEM:** My Mac refuses to acknowledge that my new printer exists. What's my next move?

**SOLUTION:** You can squash most printing bugs with Printer Setup Repair (\$25 for Tiger, \$20 for Panther, [www.fixamac.net](http://www.fixamac.net)). The tech support people at most printer companies recommend it.



## 36. Twisted Keys

**PROBLEM:** I use a PS/2 keyboard. Please don't laugh—it's the only one that's compatible with the KVM switch I use to control both my Mac and my PC. When working on my Mac, I want the Alt key (located where the Command key is on a Mac keyboard) to work like the Command key and the Windows key to work like the Option key. When I first started up Tiger with my keyboard connected, a Keyboard Setup Assistant launched and asked me to press the key to the right of the left shift key, then the key to the left of the right shift key. This identified my keyboard as a standard ANSI (American National Standards Institute) keyboard—but it didn't swap my keys the way I thought it would. How can I remedy this situation?

**SOLUTION:** Since the Keyboard Setup Assistant didn't remap the keys for you, navigate to System Preferences > Keyboard & Mouse > Keyboard, then click the Modifier Keys button. Use the pop-up menus to change the mapping of the keys that

For each modifier key listed below, choose the action you want it to perform from the pop-up menu.

Caps Lock (⇪) Key: ⌘ Caps Lock  
 Control (^) Key: ⌘ Control  
 Option (⌥) Key: ⌥ Command  
 Command (⌘) Key: ⌘ Option

Restore Defaults

Cancel

OK

Remap your keys instead of your fingers with Tiger's Keyboard Setup Assistant.

are in the "wrong" place—in your example, change Option to Command and Command to Option.

## 37. Tiger for Aging Macs

**PROBLEM:** I ran out and got Tiger, but the installer won't let me install it—it says my hardware doesn't meet its requirements. Why? I've been running Panther just fine. Is this a bug in the Tiger Installer?

**SOLUTION:** Unfortunately, no. With every release, OS X gets a little pickier—which is understandable,

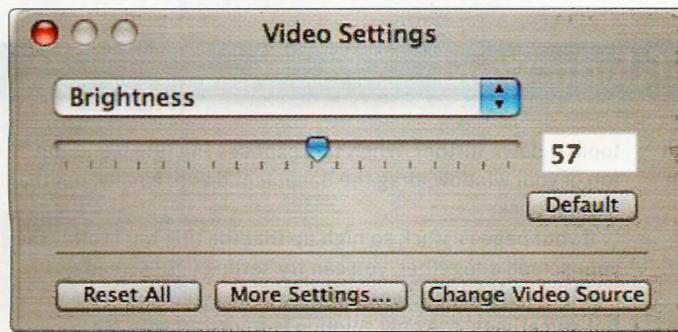
since Apple can't be expected to support every older system. But you still might be able to run Tiger successfully—if you can install it, first. Try XpostFacto (donationware, [www.opendarwin.org/projects/XPostFacto](http://www.opendarwin.org/projects/XPostFacto)), an open-source utility by Ryan Remel that enables the installation of Tiger on "certain unsupported systems"—with any luck, yours will be one of them.

## 39. USB Can You See?

**PROBLEM:** I have a USB video camera that I'd love to use for video chats in iChat AV, but supposedly iChat only works with FireWire cameras. Do I need to go camera shopping?

**SOLUTION:** Not necessarily. The shareware utility iChatUSBCam (\$9.95, [www.ecamm.com](http://www.ecamm.com)) tweaks iChat AV so it will recognize USB cameras. (Note that iChatUSBCam is not a camera driver; your camera must already be able to work on your Mac.) iChatUSBCam also includes video settings that can help you maximize the quality of your image.

If it's multiperson chatting you're after, however, be forewarned that what Apple calls "you plus three" chatting is decidedly pushing the envelope, and USB can't hold a candle to FireWire. But if you keep your expectations low—waaaay low—you'll be fine.



iChatUSBCam lets you tweak your USB video camera's settings and even use your camera in iChat AV—though once you see the quality, you'll probably want to invest in a FireWire camera.

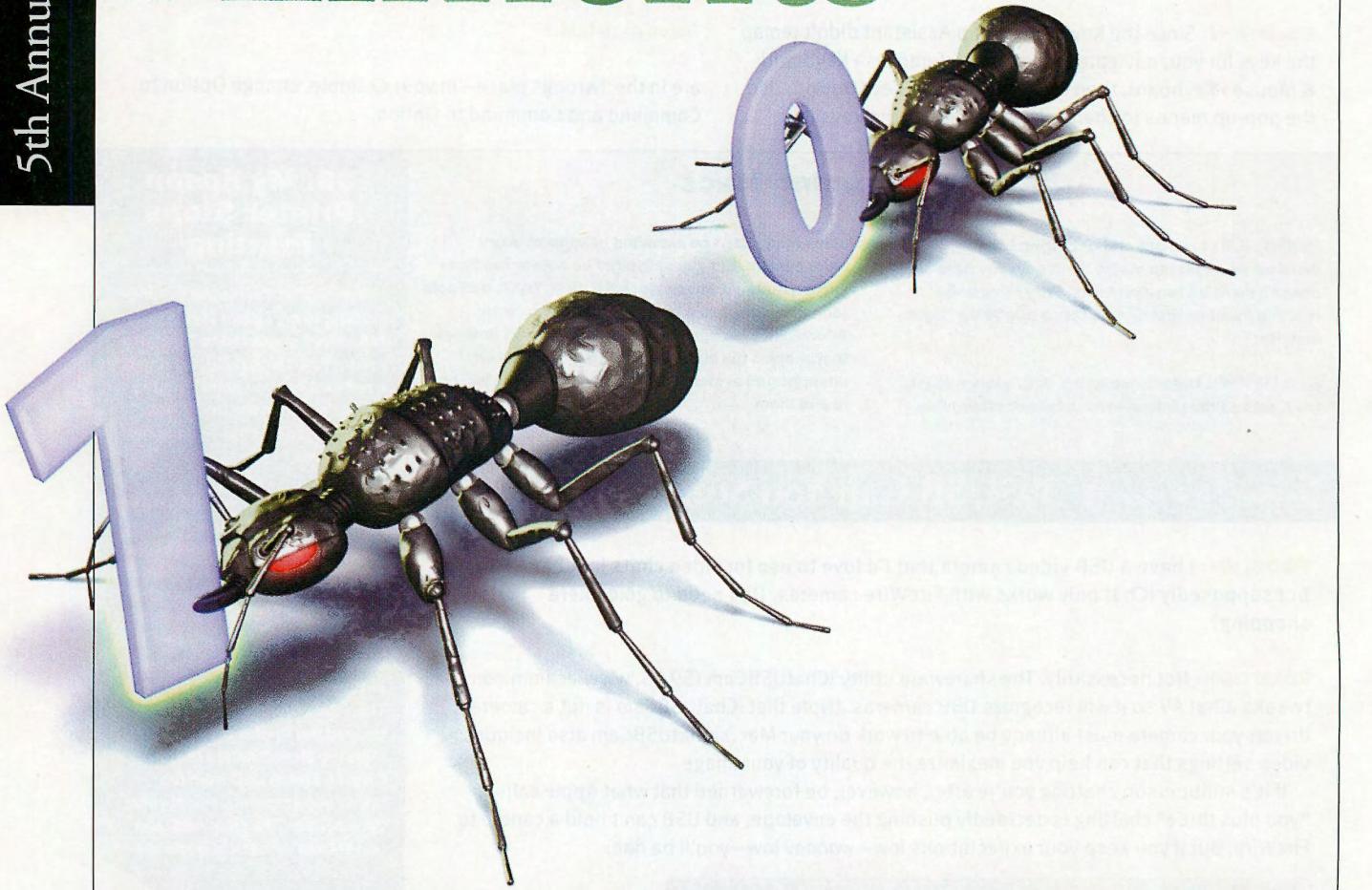


## 38. My Epson Printer Stops Printing

**PROBLEM:** I'm having trouble printing to my Epson Stylus Color 740 since I upgraded to Tiger. The printer just stops dead, and I get a red exclamation point over the printer's icon in the Dock. Help me, Obi Wan Macobi—you're my only hope!

**SOLUTION:** For reasons known only to the Sith, this muck-up tends to happen to this particular printer. To resolve the problem, try this: Go to System Preferences > Print & Fax > Printing; find your Stylus Color 740 in the Printer list, select it, and click the minus-sign button to remove it from the list. Then click the plus-sign button to open the Printer Browser, and click the More Printers button. Choose Epson USB from the upper pop-up menu, select your Stylus Color 740, click Add, and you should be back in business.

# Other App Ailments



## 40. Highfalutin Word

**PROBLEM:** Sometimes my Word documents wind up too high on my screen. The title bar gets hidden by the toolbars, which is a pain.

**SOLUTION:** Click on that tiny gray shaded area at the left of a toolbar (below its Close button) and drag the toolbar down, then back up. This will push the document down to make room for the toolbar. If it doesn't work the first time, drag the

toolbar down further. When this exposes the title bar at the top of your window, drag the document down. Finally, put the toolbar back.

If your page is stuck so high up that the title bar is off your screen altogether, you can try setting your screen's resolution higher and see if that exposes your entire page. But sometimes, the only solution is to restart your Mac.

## 41. Key Commands Stop Commanding

**PROBLEM:** For some reason I can't figure out, all key commands suddenly just stop working in Entourage. I can still use my mouse to click buttons, but that's just not productive. What's up with that?

**SOLUTION:** Believe us, you're far from alone in experiencing this annoying anomaly. Fortunately, simply quitting Entourage and relaunching it solves the problem—usually. If that doesn't work, restarting your Mac should do the trick—usually.

**PROBLEM:** Whenever I open Word, I get this tiny little Adobe-iconized toolbar for saving my documents as PDFs. I close the toolbar, but the next time I start Word, there it is again. How can I get rid of it permanently?

It's small, annoying, and (worst of all) persistent: Down with the PDFMaker toolbar!



**SOLUTION:** Your problem lies with Acrobat Professional's installation of PDFMaker shortcuts as startup items in Office—and your solution is to banish them from your Mac. Find your Microsoft Office folder (most likely in /Applications), open the Office folder inside it, and then open the Startup folder inside that. You'll see three folders: one each for Word, Excel, and PowerPoint. Open the Word folder, and remove the PDFMaker.dot file. You don't have to trash it if you think you might want it again—just get it out of the Startup folder. If you want to remove the Adobe toolbars from Excel and PowerPoint as well, open their folders and remove PDFMaker.xla and PDFMaker.ppa, respectively. By the way, the next time you run Acrobat, it may ask you if you want to repair PDFMaker. Just say no.

## 43. Quark-Permissions Monster

**PROBLEM:** Ever since I installed QuarkXPress 6, many of my other applications have been acting screwy. What the h-e-double-toothpicks is going on?

**SOLUTION:** It's been widely reported that the default installation of QuarkXPress 6, which places it in your Applications folder, messes up all the permissions in that folder. And we do mean all—it affects everything in that folder, burrowing down through all

subfolders. You need to run Disk Utility to repair your permissions.

If you need to reinstall QuarkXPress—or if you're lucky and you're reading this before you install it—here's a tip: Don't perform the default installation. Instead, create a new folder somewhere on your hard disk (name it whatever you like). Point the QuarkXPress installer to that folder. Once the installation is complete, drag the QuarkXPress folder from that folder into Applications, and then trash the empty folder.

## 44. Virtual PC, CDs, and Me

**PROBLEM:** I put a CD into my Mac and it mounted on the desktop just fine. But when I launch Virtual PC and double-click My Computer and then D Drive, it just tells me to insert a DVD or CD. Doesn't it already know my CD is there?

**SOLUTION:** Well, you've already figured out that Windows isn't smart enough to automatically mount a CD on the desktop and where to go to get to the CD—but here's the catch: Virtual PC must be the active application when you insert the CD. Switch back to the Finder, eject the CD, make Virtual PC active, and reinsert it. After you do, the CD will appear by its proper name. Dumb %\$#@ing Windows...



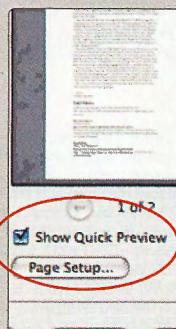
Virtual PC isn't quite smart enough to detect a CD if the app's not active.

## 46. Page What of What?

**PROBLEM:** When I save a multipage Word document as a PDF, the page numbering is wonky. Instead of my footer saying "Page 1 of 5, Page 2 of 5, Page 3 of 5," and so on, it reads "Page 1 of 1, Page 2 of 2, Page 3 of 3," until it gets to the end of the document. Not good. What's up?

**SOLUTION:** Yup, this is a bona fide Microsoft Office bug. You've set up page numbering using Word's View > Header And Footer > AutoText > Page X Of Y capability; you've also unchecked the Show Quick Preview box in Word's Print dialog. Right? Right. If you've performed both of these seemingly innocuous actions, Word loses its little mind when you try to save as a PDF, and produces the weird pagination that you noticed. The solution, fortunately, is a simple one: Just recheck the Show Quick Preview box in Word's Print dialog, and the next time you paginate a document using AutoText > Page X Of Y, all will be well.

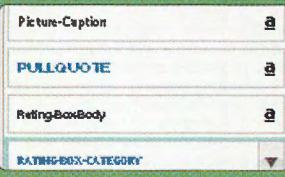
If you're paginating a PDF, make sure to check the Show Quick Preview box in the Print dialog.



## 45. WYSI Not What You Want

**PROBLEM:** In Word 2004's Formatting Palette, my Style names show up as WYSIWYG even though I've unchecked WYSIWYG Font And Style Menus in Word > Preferences > General. Since many of my styles use 8-point type, the Style names are essentially unreadable. How do I get them to revert to plain text?

**SOLUTION:** You can't. Yeah, it's dumb and annoying, but that's the way Microsoft coded the Formatting Palette. Your only workaround is to use the Formatting Toolbar (View > Toolbars > Formatting), and not the Formatting Palette—you can turn off WYSIWYG for the Toolbar.

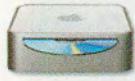


Hate tiny text in your Formatting Palette? Tough noogies.

# We'll Beat Including the Apple S

*Plus...no interest, no pa*

MacMall is the #1 Apple Direct Reseller!



**NEW! Mac mini**  
starting at **\$494!**

**FREE Shipping!**  
**FREE Speakers!**



**NEW! eMac G4**  
starting at **\$794!**

Upgrade up to a total of 1GB  
premium RAM for only \$65!  
**FREE Shipping!**



**NEW! iMac G5**  
starting at **\$1,294!**

Upgrade up to a total of 1GB  
premium RAM for only \$65!  
**FREE Shipping!**



**PowerBook G4**  
starting at **\$1,494!**

**FREE** up to 512MB RAM!  
**FREE Shipping!**  
**FREE MacCase**  
**Carrying Case!**



**iBook G4**  
starting at **\$994!**

**FREE** 512MB RAM!  
**FREE Shipping!**  
**FREE MacCase**  
**Carrying Case!**



**AirPort Express™**  
only **\$119.99!**



**iPod® mini**  
starting at **\$194!**  
**FREE** with any iPod purchase:  
Shipping, Speakers, Engraving,  
Car Mount!



**QuarkXPress 6.5**  
upg. only **\$199!**



**NEW! Creative Suite 2**  
Premium Upgrade  
only **\$437.99!**



**NEW! Mac OS® X v10.4**  
only **\$93.99!**

Source Code: MACADDICT

\*WE'LL BEAT ANY PRICE or competitive promotion on any Apple computer. We may require proof of dealer's pricing. Competitor must be an Apple Authorized Reseller. Product must be in stock at the competition. Advertised item must be identical to the one offered by MacMall and must be a new item in a factory sealed box. We reserve the right to limit quantity ordered. This offer does not apply to special, bonus or free offers, grand openings, special purchases or special buys, manufacturer's rebates, closeouts, clearances, or to dealers' one-of-a-kind or other limited quantity offers. Nor does it apply to advertising errors made by any authorized dealer. Not open to dealers. Void where prohibited. Sorry, offer not valid in conjunction with other rebate offers. On multiple-item quotes: "We'll Beat Any Price" applies to the price of the entire order, not individual line items. Offer applies to pre-tax'd prices only. Offer valid only at time of purchase, not after the fact. \*\*NO INTEREST NO PAYMENTS FOR 12 MONTHS Fixed APR: On your MacMall credit card, subject to credit approval. If the balance on these purchases is paid in full before the expiration of the 12 months promotional period and your Account is kept current, accrued Finance Charges will not be imposed on these purchases. If the balance on these purchases is not paid in full, Finance Charges will be assessed from the purchase date at the Standard Rate of 23.99% APR. For Accounts not kept current, the promotion will be cancelled, the Default Rate of 27.99% APR and monthly payments will apply. Minimum Finance Charge is \$2.00. Certain rules apply to the allocation of payments and Finance Charges on your promotional purchase if you make more than one purchase on your MacMall credit card. Call 1-888-367-4310 or review your cardholder agreement for information. Offer ends July 7, 2005. Cannot be combined with other discount payment offers. **RAM OFFER**-Upgrade your eMac or iMac up to 1GB total premium RAM for \$65. This offer is for a branded 512MB memory module. Total RAM stated is based on initial RAM configuration of eMac or iMac + the 512MB upgrade. A \$39.99 installation fee is required. Upgrade your Power Mac up to 1.5GB total premium RAM for \$119. This offer is for a branded 1GB memory module. Total RAM stated is based on initial RAM configuration of Power Mac + the 1GB upgrade. A \$39.99 installation fee is required. **FREE RAM OFFER**-RAM is free after \$119 MacMall mail-in rebate for PowerBook G4 models (price before rebate is \$119) or \$99 MacMall mail-in rebate for iBook G4 models (price before rebate is \$99). All RAM offers require an additional \$39.99 professional installation fee. Offer ends 7/17/05. **FREE SHIPPING OFFER**-Offer applies to all orders over \$99. After MacMall mail-in rebate. Other restrictions apply. **FREE SPEAKERS OFFER**-After \$9.99 MacMall mail-in rebate when purchased with any Mac mini or iPod. Price before rebate is \$9.99. #569836. Offer ends 7/8/05. **FREE ENGRAVING OFFER**-Get your iPod or iPod mini engraved for FREE when you purchase it through MacMall. Not available for iPod shuffle. Place your order now, then visit [www.macmall.com/mypod](http://www.macmall.com/mypod) for details. **FREE CAR MOUNT OFFER**-After \$14.99 MacMall mail-in rebate with purchase of any iPod or iPod mini. Not available for iPod shuffle. Price before rebate is \$14.99. Offer ends 7/17/05. **CREATIVE SUITE 2 PREMIUM UPGRADE MAC**-Price after \$35 MacMall mail-in rebate. Price before rebate is \$128.99. #136613. Offer ends 6/30/05. **FREE KODAK DIGITAL CAMERA OFFER**-Purchase a mfr. reconditioned Kodak DX7630 and any Apple Computer priced at or above \$1,990 and receive a \$224 MacMall mail-in rebate. Or purchase a mfr. reconditioned Kodak DX7630 and any Apple Computer priced under \$1,990 and receive a \$75 MacMall mail-in rebate. Initial price of camera before rebate is \$224. Offers expires 7/17/05. **ALL OFFERS VALID WHILE SUPPLIES LAST**. Download rebate coupons at [www.macmall.com/rebates](http://www.macmall.com/rebates).

# Any Price!<sup>\*</sup>

## store and Apple Direct!

### Payments for 12 months!<sup>\*\*</sup>

 Authorized Reseller

Up to Dual 2.7GHz!



Display sold separately.

Power Mac® G5 starting at **\$1,494!**  
Upgrade up to a total of 1.5GB premium RAM for only \$119!  
**FREE Shipping!**

Apple Cinema Display® starting at **\$794!**

Hurry! Limited time offer!  
Call MacMall now at  
**1-800-965-3282**



**Free Kodak 6.1Mp  
Digital Camera!<sup>†</sup>**

With purchase of any Apple  
Computer over \$1,990!  
Or just \$149 with any Apple  
Computer purchase!<sup>††</sup>

<sup>†</sup>Mr. reconditioned. After mail-in rebate.

**Free Shipping!**  
On all orders over **\$99!**

After mail-in rebates. Other restrictions apply.

**Free iPod Offers!**  
With purchase of any iPod!  
Free Engraving!<sup>††</sup> (\$39.99 value!)  
Free Speakers!<sup>††</sup> (\$9.99 value!)  
Free Car Mount!<sup>††</sup> (\$14.99 value!)  
<sup>††</sup>Free after mail-in rebates. Select offers do not apply to iPod shuffle. Other restrictions apply.  
See below for more details.

# MacMall®

Visit us at [macmall.com](http://macmall.com) for more Mac solutions.

# Enter the Blogosphere

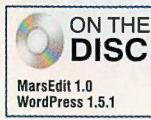
by Johnathon Williams

## Get your blog on with these Mac-friendly Web log tools.

**B**logs are happening, no doubt about it. Some estimates claim that there are 60 million blogs on the Web these days. There's no telling how many of these are kept up to date (blog is short for "Web log," which implies something that's updated regularly)—as with any fad, a lot of people start blogs and then lose interest. But blog tracker Technorati ([www.technorati.com](http://www.technorati.com)) claims that about half a million new blog posts appear daily, and a Pew Internet study ([www.pewinternet.org](http://www.pewinternet.org)) found that 27 percent of Internet users say they read blogs.

So where's yours? New tools allow even novices to create and update Web logs, but the exploding popularity of blogging has created an endless number of options and services, some of them hopelessly based in the pccccc universe. There are free blog services and paid ones, Web forms and update clients, photo blogs and audio blogs—how are Mac addicts going to figure out what's best? By reading *MacAddict*, of course.

Here, we look at the best Mac-friendly blogging options, but we don't stop there—we also point you to potent tools for after you take off the training wheels, teach you how to include photos, and even reveal how to use your blog to make money. Don't wait—pretty soon, everyone in the world is going to have a blog but you. Well, maybe not everyone—but why take the chance?



## Blog-o-matic

If you're just starting out, don't reinvent the wheel. Ready-made blog services give you a bit of server space, a Web address, and a password-protected update form, saving you the time and trouble of running your own Web server. Here, we line up the four kingpins of blogdom for your inspection.

### BLOGGER

Getting started with Blogger couldn't be easier: Fill out a short Web form with your name, email address, and blog title; choose a design; and you're ready to go. If you don't like any of the attractive canned designs, you can create your own with custom HTML and CSS code. Best of all, a Google search box is built into every blog. (Google owns Blogger.)

Blogger doesn't permit file uploads, so you'll have to host your pictures and podcasts elsewhere. This restriction, however, is

removed if you use Blogger to publish a blog to your own server—a nice option. Blogger also lacks a feature that many bloggers find essential: the ability to assign categories to posts.



**Big buttons and clean labels make Blogger a newbie's dream come true.**

are the 1 most recent journal entries recorded in [steve\\_jobs\\_ceo's](#) LiveJournal:

**Wednesday, April 20th, 2005**

5:10 pm **Rough Day at the Office**  
It was hard to get anything done today at Apple. The people at Pixar wouldn't stop the new iPod designs were ready to look at. I browsed the Web for a while, but it's not any new rumors to get mad about, and I've already spent way too much money at the When Tiger streets. I'm taking a little vacation. Hey, maybe Bono would like to go.

**LiveJournal's default style goes for the old-school journal vibe.**

### LIVEJOURNAL

LiveJournal is our favorite baby blog. Its plain-Jane journal format hearkens back to the birth of blogs, when most people knew them as online diaries. Setup isn't quite as easy as Blogger's, but it's close enough. Finding and tracking other LiveJournalers is simple and automatic, thanks to Friend lists.

Unfortunately, the integration of the LiveJournal community tends to isolate it from the rest of the blogosphere. The free version of LiveJournal forbids file uploads, and its canned designs are elementary at best.

**Simple format, easy setup, and a huge and active community.**  
**Canned designs are simplistic. Easy to outgrow.**  
**A little too simple for our tastes—but lots of people like it.**  
**\$ free (advanced features available for a fee), [www.livejournal.com](http://www.livejournal.com)**

# ere!

## MSN SPACES

We were surprised at how easy it was to set up a blog in Spaces: A four-line Web form is all it takes (after you sign up for a .Net Passport, that is). Layout tools provide flexibility for placing your entries and photos. Photos upload easily (to space provided by MSN), and lists are simple to create and place.

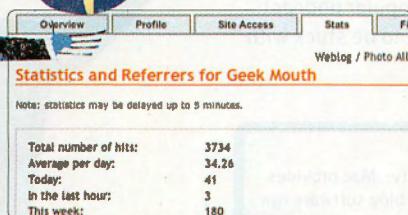
Unfortunately, it's mostly downhill from there. In true Microsoft fashion, some features—such as advanced design options or the ability to copy music playlists from a media player—are exclusive to PCs running Internet Explorer. And the canned designs display Redmond's familiar "see, we be hip, blog dawg!" aesthetic sensibilities.

## TYPEPAD

This one isn't free, but your coin buys features that go above and beyond the competition. TypePad is the only service that offers an easy Web form for customizing or creating a design. (The others require you to modify HTML and CSS code, which TypePad also offers as an option.) The three-tiered fee buys you a varying amount of server space,

and you can upload as many photos and files as will fit. TypeLists make it easy to build lists of your favorite links, books, or movies.

That's not to say that TypePad's perfect, though. The server space given to the top tier of service—200MB for \$14.95—is a bit stingy for the money, considering that the same number of dollars can easily buy 1GB at a standard Web host if you make the blog yourself.



TypePad is the only service in our list that provides visitor statistics.

- ↑ Easy setup, simple creation of music lists, space provided for photo uploads.
- ↓ Weak Mac browser support. Canned designs deserve to stay in the can.
- Try again, MSN.
- \$ free, <http://spaces.msn.com>

- ↑ By the time you outgrow this service, you'll be ready for corporate sponsorship.
- ↓ Server space provided is a bit stingy.
- The blog service for grownups—but be sure to examine the differences between the price tiers.
- \$ \$4.95 to \$14.95 per month, [www.typepad.com](http://www.typepad.com)

## Roll Your Own

If we know Mac addicts—and we do—some of you won't be happy unless you can control every last detail of your blog. In that case, simple services won't cut it; only installing blog software on your own Web server will do. It's not easy, but being most excellent never is.

To run your own blog installation, you'll first need access to a Web host that supports MySQL (a database server) and either PHP or PERL (software for running server-side scripts). Most Web hosts offer all three, and you can find starter packages for as little as \$8 per month.

Next, you must choose which blog software to install. We've narrowed your choices down to two of the most reliable and popular packages out there: Movable Type and WordPress. We don't have enough space here to provide instructions for installing each package, but detailed (if technical) how-tos are included with the downloads.

### MOVABLE TYPE

Movable Type is the metaphorical granddaddy of blog software and the literal big brother of TypePad—both are from Six Apart ([www.sixapart.com](http://www.sixapart.com)). A built-in email list allows visitors to subscribe to update notices, which can be sent automatically when a new entry is published. Third-party plug-ins add support for photo galleries and dozens of other extras. Other perks include support for creating unlimited blogs on the same server and support for multiple authors within a single blog.

Unfortunately, the free version limits you to three blogs and one author, which is a pain if you were hoping to set up blogs for 10 of your friends. Also, because of the program's popularity, comment spam (advertisers leaving bogus comments) has been a problem.

- ↑ Email list offers automatic notifications for visitors, while plug-ins add support for everything but dishwashing.
- ↓ Steep price for full version. Comment spam is bad news.
- MT remains the Cadillac of blog servers. The paid version offers more features than you may ever need.
- \$ free (personal use), \$99.95 (full version), [www.sixapart.com/movabletype](http://www.sixapart.com/movabletype)

Main Menu | HELP | LOGO  
Tim Cherry: News > Notification List  
Notification List  
Add an Email Address  
To add a new address to your notification list, enter the Add button.  
Email Address:  URL:   
Main Menu > Tim Cherry: News > Notification List

The built-in notification list is one of our favorite features of Movable Type.



## WORDPRESS

For all our love of Moveable Type, it's not hard to see why WordPress (free, on the Disc or download from [www.wordpress.org](http://www.wordpress.org)) is converting more users every day. The program is free and open source, and it offers the same core features as Moveable Type: unlimited authors, entry categories, comments, trackbacks, and a built-in public search function. Its support for creating static pages (an About page, for example, or anything not a regular blog entry) actually bests MT's. Sadly, it lacks what we consider one of MT's best features: the ability to create unlimited blogs from a single installation. Also, we miss MT's built-in email list and notifications.

- ▲ Free as beer, unlimited authors, rock-solid performance.
- ▼ Lacks a few of MT's more alluring features.
- Are we allowed to call a tie? Of course, 'cause we're writing the rules!
- \$. [free, www.wordpress.org](http://free.wordpress.org)

**iPod Addict Support Group**

Emergency Meeting this AM

April 21, 2005

Chris, the iPod guru, had an attack at the Best Buy store yesterday, when he walked past a display of iPods and started to attack the employees and two policemen to restrain him, so we're going to have an emergency meeting at the courthouse downtown to try and persuade the Judge to allow Remorse. What a terrible disease.

posted in [Uncategorized](#) | [Edit](#) | [No Comments](#) | [Search](#)

Archives

- April 2005

Categories

- [Uncategorized](#)

Tags

- iPod
- Mac
- Dog
- Mac

**WordPress's default design is easily better than Moveable Type's. Being free doesn't hurt, either.**

## Text Is Dead

At the moment, text still makes up the majority of blogs, but other forms of content are gaining fast. Photoblogs, audio blogs, and podcasts are claiming more territory every day. Even bloggers who post primarily text entries may want to post the occasional picture or audio file. Here's how.

### PHOTO HOSTING

If your blog provider won't allow image uploads, Flickr ([www.flickr.com](http://www.flickr.com)) is the way to go. This service for hosting and sharing photos works with all the major blog services and software packages. After you set up your account, all you need to do to post a picture on your blog is upload it to Flickr, select it, and click the Blog This

**Blog this photo**



Compose your blog entry

Title: Sisters

Your Post: Mac users get all the chicks. Seriously!

Uploaded by [inverwelt](#) on 28 Jan 05, 7:19pm PDT.

**Hosting images with Flickr can save you big bucks and attract your preferred gender. Well, maybe not the latter.**

button above the photograph. Flickr provides a familiar Web form to write your entry. When you post your entry, Flickr sends the picture to your blog from its own servers.

Also, be sure to check out the Flickr Export plug-in for iPhoto 4 and 5 ([www.speirs.org/flickrexport](http://www.speirs.org/flickrexport)). You won't believe the time it saves.

### PODCAST HOSTING

So you want to produce a podcast—where are you going to put it? The average podcast is much larger than an image file, making it hard to distribute. Reputable and reliable podcasting hosts have yet to materialize (at least by press time), so your best bet is to share the files from a standard Web host. Even your .Mac account will work in a pinch. Just be sure your host gives you a generous bandwidth allowance. A popular podcast can consume a huge amount of data-transfer time, and you don't want to be stuck with an overage bill.

### TIP

#### BLOGGING WITH .MAC

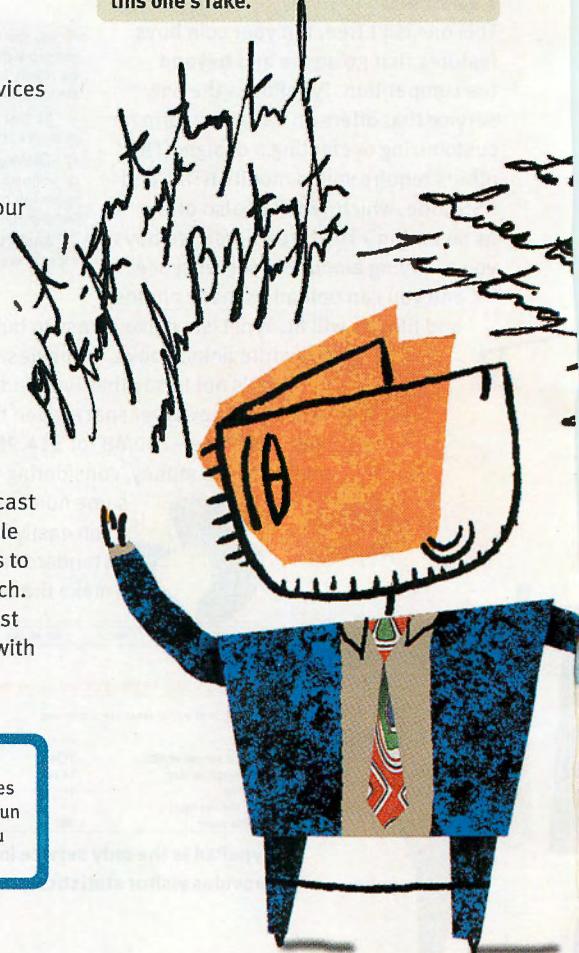
Unfortunately, .Mac is the weak sister of the blog bunch. The trouble is interactivity: .Mac provides none. The programming juju that powers comments and trackbacks requires that blog software run on the server, and .Mac won't allow it. Blogging with .Mac is like riding to school on a moped: You can do it, but the other kids will make fun of you.

## Moblog Madness

Blogging from your Mac is so 2004. With an email-enabled camera phone, you can post both text and photos to your blog. Several blog providers (TypePad, Blogger, and LiveJournal included) provide ways to do this, but Flickr works with them all. Log into your account, and go to your account settings page. Click Uploading Photos To Your Blog By Email. Select an image size for your blog postings, and click Save. The email address displayed on the next page is unique to your blog. Anything sent to it will be posted to your blog automatically.

Now you can blog your photos to Max's Mac Hacks automatically. Send your photos to Flickr using this address: [most189carry@photos.flickr.com](mailto:most189carry@photos.flickr.com) ...and do this when they're sent: Tag all your photos uploaded by email with: [Moblog](#)

This email address is a back door to your blog. Guard it with your life. And yes, this one's fake.

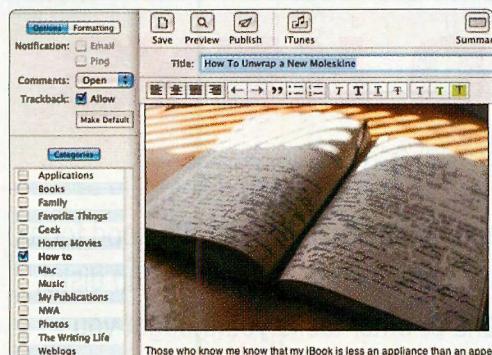


# Update from Your Desktop

Let's face it: Updating a blog from a Web browser is for amateurs. Pro bloggers (excuse the oxymoron) use desktop update clients. Update clients can let you save unfinished drafts, store customized HTML tags, and format text with all your favorite Command-key combos, just to name a few features. Think of the difference between emailing with a Web mail system like Yahoo and emailing with a desktop client like Apple Mail, and you'll get the idea. Here are the top two Mac desktop clients.

## ECTO

Ecto's feature list is too long to print, so here's a taste: You can assign multiple categories to a single post (if that's supported by your blog system), search Amazon's product database and import styled links, edit within the familiar confines of a rich-text word processor, or get your hands dirty with naked HTML. Photobloggers will love being able to import pictures directly from iPhoto and link thumbnails to the originals. Where Ecto falls short is its interface—you get the feeling that the developer didn't know where to put all that power. The learning curve is easy, however, and worth the effort.

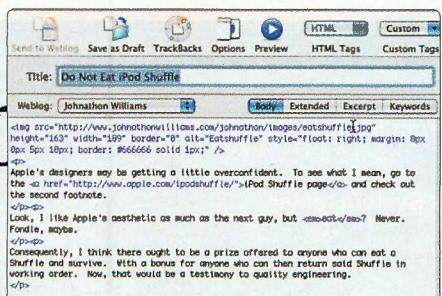


More power and flexibility than most bloggers will ever use.  
Interface could be improved.  
Easily the best choice for the money.  
\$ 17.95, ecto.kung-foo.tv

You'll take our Ecto license when you pry it from our cold, dead hands!

## MARSEDT

Like Ecto, MarsEdit (\$24.95, on the Disc, or download from [www.ranchero.com](http://www.ranchero.com)) can assign multiple categories, save local drafts of unfinished posts, and store custom HTML tags. Where it distinguishes itself is its clean, uncluttered interface. Ranchero's Web site boasts that MarsEdit makes blogging as easy as writing an email—and, for the most part, they're right. That said, MarsEdit's feature set is a distant second to Ecto's. The rich-text environment that Ecto provides is completely absent here, replaced by naked HTML.



Simple, uncluttered interface; email-like ease of use.  
Weak feature set. Lack of advanced options.  
Ultimately, we can't help but feel that this is Ecto Lite.  
\$ 24.95, [www.ranchero.com](http://www.ranchero.com)

MarsEdit offers a first-class interface, but its feature set is stuck back in coach.

## TIP

### BEST BLOG BROWSER

We hate to say it, but it ain't Safari. Most of the major blog services and software packages provide a word processor-style editing menu for HTML tricks such as hyperlinks and text formatting (bold, italics, and so on). The trouble is that Safari can't see it. You'll need to use Firefox, Camino, or Opera instead. Unless you're an HTML jockey, the convenience is more than worth the switch.

# Cash Cow

Now that you know how to set up a blog, howzabout using it to make you some money? One way is to serve up some ads along with your content. Google AdSense is the oldest and most trusted ad program out there—sign up for a free account at [www.google.com/adsense](http://www.google.com/adsense), and Google will provide you with a block of ad code. Paste the code into your blog design, and Google will provide text ads selected to match the content of your blog. You get paid by the click. In our experience, the average click is worth about a dime, but we've seen clicks go as high as 56 cents.

Alternately, you can sign up for affiliate programs. Most online retailers pay a commission for traffic you direct to their sites, assuming the traffic buys something. Amazon's affiliate program is one of the most popular. Sign up for an account at [www.amazon.com](http://www.amazon.com), and use the link builder to post your favorite books, movies, and CDs. The referral fee is generally 4 percent.

Of course, no Mac blogger should be without an affiliate link to the iTunes Music Store, which pays 5 percent per referred order. Follow the link from Apple's home page at [www.apple.com](http://www.apple.com).

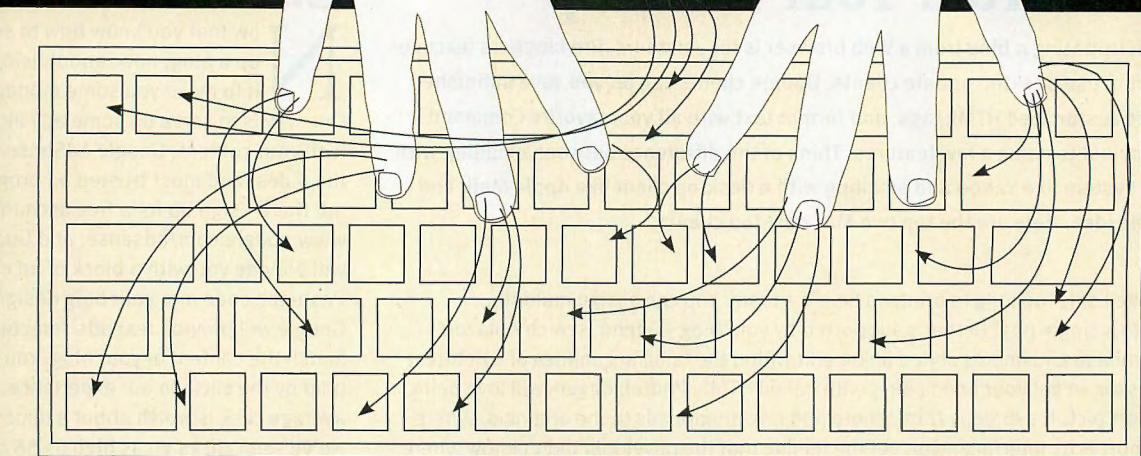
The bottom line? On the average blog, the combination of Google ads and affiliate links will occasionally add up to some nice beer money. But don't quit your day job.

Tuesday, March 1, 2005 - Wednesday, April 20, 2005				
Totals	1,803	9	0.5%	\$0.65
Date	Page Impressions	Clicks	Page CTR	Page eCPM [?]
Tuesday, March 1, 2005	20	1	5.0%	\$10.00
Wednesday, March 2, 2005	42	0	0.0%	\$0.00
Thursday, March 3, 2005	32	0	0.0%	\$0.00
Friday, March 4, 2005	78	0	0.0%	\$0.00
Saturday, March 5, 2005	62	0	0.0%	\$0.00
Sunday, March 6, 2005	106	5	4.7%	\$2.74
Monday, March 7, 2005	178	1	0.6%	\$0.39

Crime doesn't pay, but blogging just might—if you're lucky.

Johnathon Williams has been blogging long enough to have given it up twice.

# Field Guide to KEYBOARD SHORTCUTS



## KEY KEYBOARD KEYS

Keyboards: They're not just for typing anymore. By Jake Widman

See that thing on your desk—that flat rectangle with the letters and numbers all over it? It's good for a lot more than writing and calculating. If you know its secrets, you can use it to change startup disks, switch windows and applications, manipulate files, and perform dozens of other tasks you thought you needed the mouse to accomplish. Here are 39 of our favorite things to do with our keyboards when we're not typing sentences like this one. We've left out the ones that are easy to find on your own (like by looking in the Finder menus next to the command name); these are the shortcuts you might only stumble upon when you lean on your keyboard and then wonder what the heck you just did.

### STARTUP CODES

#### HOLD DOWN DURING STARTUP ACTION

option

Choose which volume and System to start from (if more than one startup volume is available).

C

Start up from an inserted CD that includes a System folder.

N

Start up from a network server (NetBoot).

T

Start up in FireWire target disk mode.

shift

Start up in SafeBoot mode, which temporarily disables login items and nonessential kernel extensions.

V

Start up in Verbose mode, which displays screenfuls of text showing the UNIX behind the GUI.

S

Start up in Single-User mode.

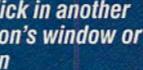
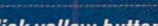
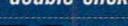
P R

Reset PRAM.

N V

Reset NVRAM.

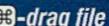
## INTERFACE AND NAVIGATION

KEY COMMAND	ACTION
  	Toggle Dock hiding on/off.
  	Switch to target application and hide current app.
  	Cycle through application or Finder windows (if more than one open).
  	Cycle through application or Finder windows in reverse order.
  	Cycle through available window views.
  	Show path to folder or document.
  	Dock all of an app's currently open windows (only works with some apps).
  	Move up one directory level in the Finder.
  	Move down one directory level in the Finder.
  	Open parent folder and close current window in the Finder.
  	Expand folder in the Finder's List View.
  	Expand folder and nested subfolders in the Finder's List View.
  	Collapse folder in the Finder's List View.
  	Open selected folder and close parent window.
or  	
  	Toggle Zoom on/off.
  	Zoom in (once Zoom is turned on).
  	Zoom out (once Zoom is turned on).
   	Toggle white-on-black mode on/off.

## SYSTEM OPERATIONS

KEY COMMAND	ACTION
  	Log out.
  	Launch Force Quit dialog.
  	Restart immediately.
(WARNING: You'll have no chance to save documents; volume may become corrupted.)	
  	Take a picture of the screen and save on desktop.
  	Take a picture of selection and save on desktop.
  	Take a picture of selection and place in Clipboard.
  	Take picture of selected window and save on desktop.
then  	
then  	

## FINDER OPERATIONS

KEY COMMAND	ACTION
  	Empty Trash.
   	Empty Trash immediately without a warning dialog.
 	Copy file or folder to a new location.
  	Make an alias in a new location.
 	Move to a new volume without copying.



Jake Widman wishes he could set Command-Tab to Hide All Others When Switching.

In Stores Now!

# The Sims™ 2

*The Next Generation People Simulator*

[www.aspyr.com](http://www.aspyr.com)

Control Their World



Create Your Sims



Push Them to Extremes



Fulfill Their Dreams



© 2005 Electronic Arts Inc. Electronic Arts, The Sims, EA, Challenge Everything, EA GAMES, the EA GAMES logo, Maxis and the Maxis logo are trademarks or registered trademarks of Electronic Arts Inc. in the U.S. and/or other countries. All rights reserved. All other trademarks are the property of their respective owners. EA GAMES™ and Maxis™ are Electronic Arts'™ brands. The ratings icon is a registered trademark of the Entertainment Software Association. The Mac logo is a registered trademark of Apple Computer, Inc. and the Mac and the Mac logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

TEEN  
T  
ESRB CONTENT RATING [www.esrb.org](http://www.esrb.org)

Mac

ASPYR  
Authorized Electronic Arts™ Distributor

MAXIS

EA  
GAMES  
Challenge Everything™



You'll be blown away.



You'll be impressed.



You'll be satisfied.



You'll be disappointed.



You'll be pissed off.

better living through smarter shopping



It's summertime. You're probably spending your time vacationing, working on your tan, barbecuing, camping, biking, surfing, swimming, cleaning pools, making bail, whatever—and you're just not spending much time with your new dual 2.7GHz Power Mac, 2GHz iMac G5, or 1.42GHz eMac (all pictured). Well, did you hear about the new Photoshop CS2? How about True Crime: Streets of LA? Or the Cintiq 21UX? These products will have you out of the sunshine and back in front of your Mac in two shakes of a tiger's tail. Next month, we'll take a look at Apple's Final Cut Studio suite, MacSoft's Close Combat: First to Fight, palmOne's LifeDrive, and more.

- 45 1.42GHz eMac all-in-one CRT Mac
- 47 20-Inch 2GHz iMac G5 all-in-one LCD Mac
- 53 AirClick iPod remote control
- 51 AirClick USB Mac remote control
- 48 Cintiq 21UX LCD display
- 44 Dual 2.7GHz Power Mac G5 G5 tower
- 54 FontAgent Pro font manager
- 52 HC100U projector
- 54 Hybrid Hardpack backpack
- 49 IceTune iPod speakers
- 42 InCopy CS2 InDesign-companion app
- 40 InDesign CS2 page-layout software
- 49 mm22 Portable Speakers for iPod iPod speakers
- 54 Opus in-ear earbuds
- 46 P-2000 portable multimedia player
- 38 Photoshop CS2 image-editing app
- 50 Poser 6 3D-modeling software
- 52 pzizz nap-time software
- 50 Rise of Nations real-time strategy game
- 51 True Crime: Streets of LA action game

**PLUS:****The Hot List**

55 The best of the best from recent reviews.



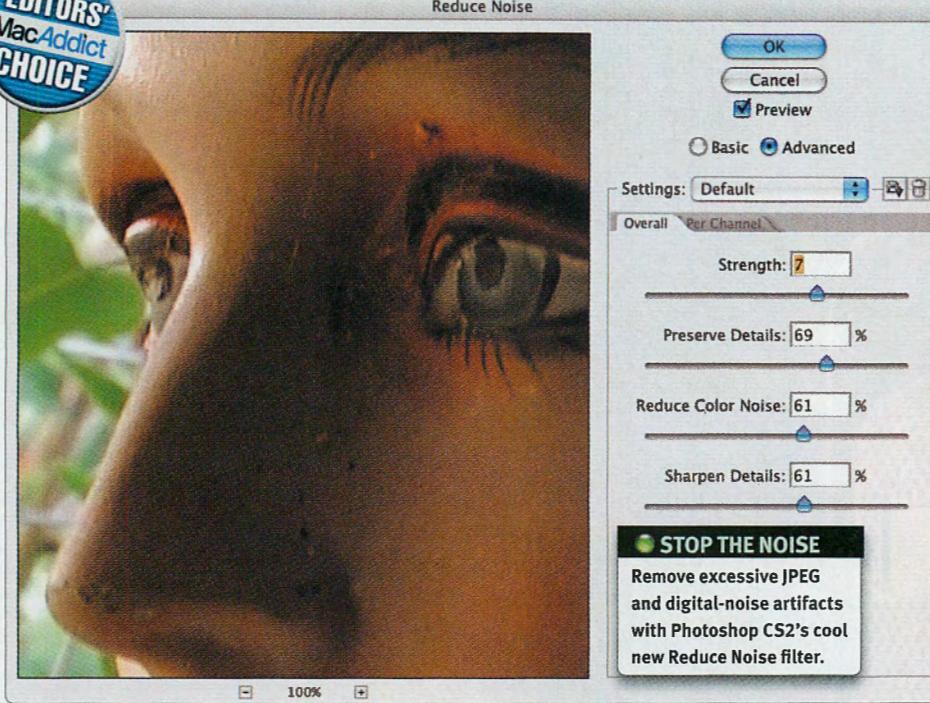
Compatible with Mac OS X or later.



Compatible with Mac OS 9 or earlier.

We'd spend our own hard-earned money on this product.





# Photoshop CS2

## INCOMPARABLE IMAGE-EDITING TOOL

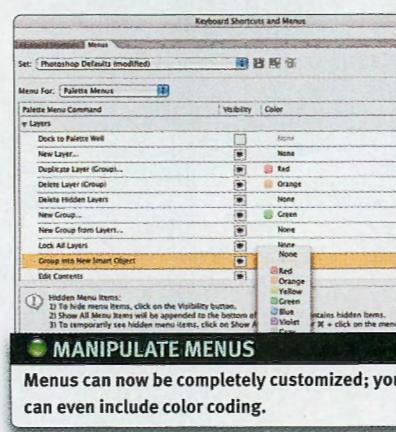
It's rare for a product name to become a common word in our language—much to the chagrin of corporate lawyers, tissues are now Kleenexes, for example, and photocopies are Xeroxes. Photoshop is the latest example of this; it has become a verb that means "to manipulate an image"—a testament to the app's effect on art, photography, and just about anything else involving imagery. Fortunately, Adobe isn't simply resting on its well-earned laurels; the newest version of Photoshop is one of the strongest overall upgrades in years.

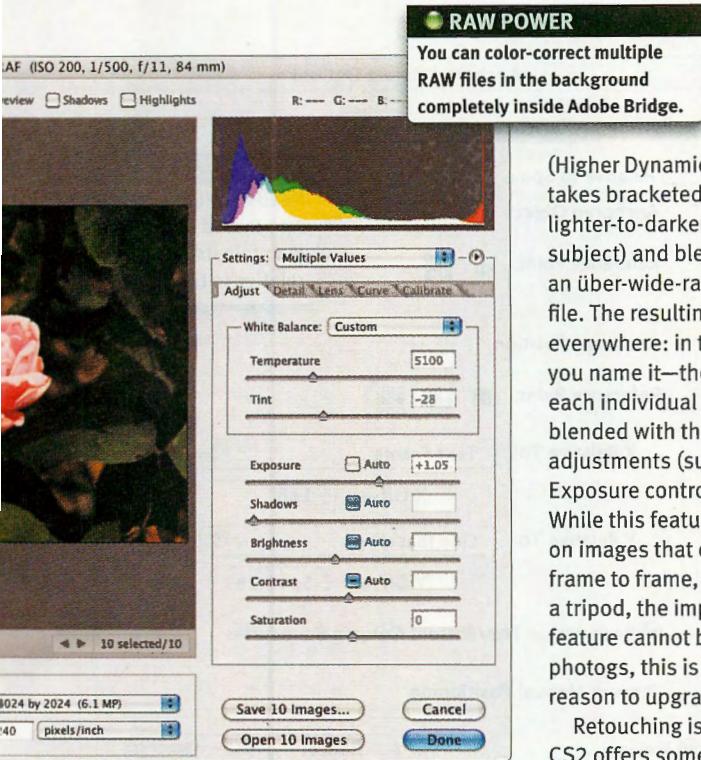
But before we get to the good stuff, let's get our least favorite aspect of this revision out of the way: Adobe's software-activation scheme. It checks back with Adobe over the Internet (or forces you to phone the company if you don't have an active Internet connection) to serialize your copy of Photoshop with your Mac. Adobe allows two installations (assuming you use a desktop Mac and separate laptop), but only one can be active at any time. If you're a consultant who prefers to carry an external USB or FireWire hard drive with Photoshop or some other Creative Suite 2 app, you're outta luck. You need your laptop.

**The good stuff.** One of Photoshop's most important new features is Smart Layers, which will appeal to anyone who uses any form of layered compositing. Designed to work with both bitmapped layers and vector graphics imported from Illustrator, Smart Layers brings non-destructive editing to Photoshop. It's simple to use: Choose a layer and designate it as a Smart Layer, and you can resize, stretch, and distort the layer to your heart's content, without the image-quality decimation you normally get with this kind of pixel pushing. It gets even better—create duplicates of your

Smart Layer, and editing the original will automatically update the copies throughout the document (it would be even nicer if this feature worked across multiple open documents). Imported Illustrator images are retained as editable vectors and can also be scaled and distorted as many times as you like without image degradation. The previous version's relatively lame Layer Sets feature has been replaced by the more-robust Layer Groups, which creates true groupings of layers that can be simultaneously scaled, rotated, and distorted. Layer Groups even have global layer masks that control the opacity of all layers in the group.

The new Adobe Bridge takes the Photoshop Browser and breaks it out into a separate, standalone app designed to serve all of the Creative Suite 2. (We're concentrating on how Bridge works with Photoshop in this review; read more about Bridge on p41.) Bridge sports all sorts of tweaks—you can select multiple RAW camera files and simultaneously apply exposure and color-correction changes to them without using Photoshop, and they'll even process as a background task.





### RAW POWER

You can color-correct multiple RAW files in the background completely inside Adobe Bridge.

(Higher Dynamic Range) feature, which takes bracketed photos (a series of lighter-to-darker exposures of a single subject) and blends them together into an über-wide-range, 32-bit-per-channel file. The resulting picture has detail everywhere: in the shadows, highlights, you name it—the dynamic range in each individual picture is magically blended with the others, and even tiny adjustments (such as using the new Exposure control) yield dramatic results. While this feature is only really usable on images that don't vary much from frame to frame, such as those shot with a tripod, the importance of this new feature cannot be overstated. For pro photogs, this is the most compelling reason to upgrade.

Retouching is core to Photoshop, and CS2 offers some cool additions. If you

liked the Patch and Healing brushes, you'll adore the Spot Healing brush, which paints away blemishes without the need to Option-click on a clean reference point. We found that it worked exceptionally well in all but the most demanding problem images. Then there's the somewhat nerdy (but incredibly slick) Vanishing Point tool, designed to simplify the difficult task of retouching images with definable perspective attributes

by forcing specific editing operations (pasting elements and cloning) to a user-defined perspective, with automatic, interactive foreshortening alignment. If this explanation sounds dense, fear not; the process is fun, straightforward, and shaves hours off the otherwise challenging chore of retouching.



### VANISHING POINT

The Vanishing Point tool makes it easy to clone windows with automatic foreshortening, an otherwise tricky process.

while you do other stuff in Photoshop. Want to take a quick look at the last 40 shots you've snapped? Use

Bridge's slide show. The addition of an iPhoto-style zoom slider is a welcome answer to the limited thumbnail-size options of previous Browser displays. If you're in a pinch for the right picture, you can access Adobe's Stock Photo image Internet library and search by keyword.

We weren't impressed with the new red-eye removal brush, a capability Adobe brought in from Photoshop Elements. It does a quick and dirty job of getting rid of demonic red-eye flash follies, but some simple interchannel tricks yield more realistic results.

Filters are the spice of Photoshop, and CS2 has outstanding new ones. Anyone into the Unsharp Mask filter will be delighted by Smart Sharpen, which dives even deeper into the rabbit hole with new options for making images clearer than ever. If that doesn't do it for ya, Surface Blur goes in the other direction, softening the colors of an image while retaining fine edge detail for a lovely range of soft-focus effects. Image Warping, previously available only for text, can be thrown at anything, making it easy to wrap a picture around a cylinder or onto a virtual rubber sheet. The Reduce Noise filter does a surprisingly good job cleaning up JPEG-compression artifacts and film-grain emulsion from scanned slides. Shape Blur is fun, with the uniquely bizarre ability to blur an image using wacky shape masks—it's subtle, but way cool.

**Control freaks.** Photoshop CS2 can now be customized with full control over all menus (even palette menus), command keys, and hot keys. You can even color-code and hide menu items and greatly reduce the sometimes overwhelming number of choices—perfect for streamlining the interface for different levels of expertise or specific tasks. All of this customization can be saved in presets, critical for real-world deployment. You can now preview Fonts in the Fonts menu, a boon for type-addicted designers. There are all sorts of additions for assisting in automation and scripting, including variables (used for plugging external data from spreadsheets and databases into Photoshop layouts) and event-based scripts that watch your workflow and activate at specific times, such as a page-formatting script that kicks in whenever you invoke the Print command.

**The bottom line.** We like Photoshop CS2 a lot—can't you tell?—David Biedny



**COMPANY:** Adobe

**CONTACT:** 800-833-6687,

[www.adobe.com](http://www.adobe.com)

**PRICE:** \$649 (full), \$169 (upgrade)

**REQUIREMENTS:** G3, Mac OS

10.2.8 or later, 320MB RAM, 750MB disk space

**GOOD NEWS:** Smart Layers and HDR are cool. Extensive

interface-customization options. New filters for digital photogs.

**BAD NEWS:** Activation routine locks you to specific Macs.

Meager printed documentation.

**MacAddict RATED**



**AWESOME**

**ANCHOR MANAGEMENT**

Anchored objects (such as this photo) are now more manageable.

The photograph above, as well as this text frame, are anchored to the text frame at right. They're both inserted before the "A" drop cap.

While previous versions of InDesign let you paste objects and groups into text, InDesign CS2 takes the feature a big step farther by letting you anchor objects either inside or outside a text frame.

The two objects at left — a graphics frame and a text frame — are both anchored to the beginning of this paragraph. If editing causes this paragraph to move, both of the anchored frames will move along with the text. The two blue anchor icons at the upper left corners of the two anchored frames indicate that the frames are anchored.

In its first three incarnations, InDesign went from a fledgling version 1.0 wannabe in the page layout arena to a formidable challenger with a superior feature set. With QuarkXPress 7 looming on the near horizon and rumored to be armed with several new weapons — including transparency and OpenType support — that will

**Anchored Object Options**

Position: Custom

Relative to Spine

**Anchored Object**

Reference Point:

**Anchored Position**

Reference Point:

X Relative To: Text Frame

X Offset: 1p0

Y Relative To: Line (Baseline)

Y Offset: 5p11.183

Keep within Top/Bottom Column Boundaries

Prevent Manual Positioning

Preview

Cancel

OK

**SPINAL TAP**

Need to reflow text? An anchored object can maintain its position relative to the spine.

# InDesign CS2

## FEATURE-RICH PAGE-LAYOUT SOFTWARE

With QuarkXPress 7 looming and rumored to be armed with several new weapons (including transparency and full OpenType support), does InDesign CS2 have what it takes to continue luring QuarkXPress converts? We'll have to wait until QuarkXPress 7 is released to know the full tale of the tape, but InDesign CS2 boasts an impressive array of new features that will continue to make it a strong contender.

**New toys.** InDesign's new object styles let you quickly apply attributes to an object, such as fill color, stroke, drop shadow, and rotation. For example, if your layout includes sidebars in frames with a particular fill color, stroke, and text inset, you can set up an object style that lets you apply all of these settings with a single click or keyboard shortcut. You can also set up default object styles for the Type tool and the Rectangle, Ellipse, and Polygon tools so that text frames and unassigned frames are automatically formatted when you create them—a true timesaver.

InDesign now lets you place anchored objects inside or outside a text frame. If text needs to be reflowed, the anchored

objects move with the accompanying text but remain outside the frame. You can specify the placement of anchored objects relative to the spine of a facing-page document. If text reflow causes an anchored object to move from a left-side (verso) page to a right-side (recto) page, its position relative to the spine remains consistent.

The new Snippets feature is a handy way to store repeatedly used objects such as logos, boilerplate text, and house ads. A Snippet is a lot like a library object, only smarter. You can create a Snippet by dragging objects into Adobe Bridge

(see p41), onto the desktop, or by using the File > Export command. Each Snippet is an XML file that contains XMP metadata (such as creation date and file size). When you place a Snippet into a layout, the Snippet maintains its original formatting.

**Word up.** In addition to playing more nicely with Microsoft Word, InDesign CS2 also includes a handful of word processor-style features. You can drag and drop text within a frame, across frames, across InDesign documents, and even across applications (for example, directly from Word into InDesign). You can configure InDesign to automatically flag misspellings in real time, or you can have the app automatically correct misspellings. The footnotes feature lets you insert footnotes into text and includes controls for numbering, formatting, and placing footnotes.

If you work on documents with lots of paragraph and character styles, remembering style names—not to mention their keyboard shortcuts—can be a pain. The Quick Apply feature comes to the rescue, providing another fast method for applying styles. You can invoke the

InDesign CS2 now has word processor-style tools, such as automatic spell correction as you type.

40 MacAddict August 2005

Quick Apply palette with a keyboard shortcut, enter the first few letters of a style name, and then press Enter to apply the style and close the palette. If you create a set of linked paragraph styles using the Next Style feature, you can format all the paragraphs in a selected text frame in one step using Apply Style and Next Style.

Improved compatibility with Word includes the ability to import anchored objects and footnotes from Word files, better handling of conflicting style names when placing Word files, and the ability to save Microsoft Word Import presets (a preset is a collection of settings that controls how text is treated during import)—handy if you receive Word files from a variety of sources.

**QuarkXPress catch-up.** Several new features fall into the catch-up category—that is, these features are currently available in QuarkXPress. You can convert shapes into other shapes (you can change a rectangle into an ellipse or an ellipse into a polygon, for example). The Duplicate command remembers the last values used in the Step and Repeat dialog boxes. You can specify text wrap for anchored objects. And you can now show or hide layers in imported Photoshop and Acrobat files (you can also show or hide Photoshop layer comps, something you can't do with QuarkXPress).

While InDesign has come a long way from its humble beginnings, there's still room for improvement. It still doesn't automatically generate a new page when you enter text into a master text frame; you can't create different-sized pages within a document, synchronize text, or export InDesign documents as HTML files—all of which you can do with QuarkXPress. InDesign also lacks such basic features as table styles and the ability to create cross-references.

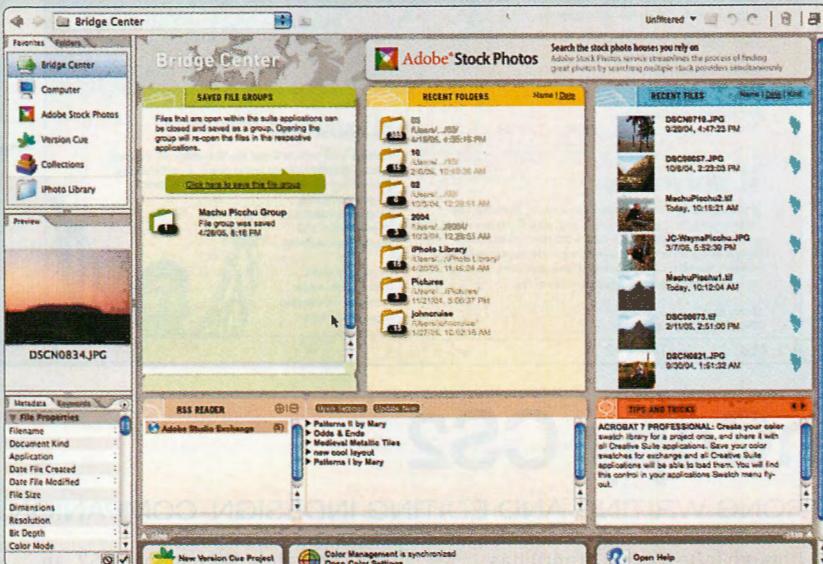
**The bottom line.** InDesign CS2 is the world's most feature-rich page layout program. Unless QuarkXPress 7 packs a powerful set of new features, the exodus of QuarkXPress users to InDesign is likely to continue.—John Cruise

## ADOBE BRIDGE EVOLVED FILE-MANAGEMENT TOOL

Think of Adobe Bridge as the Photoshop File Browser evolved into a standalone app. Not only is Bridge a lot like the Finder, it rivals the Finder by offering a comprehensive file-management environment as well as several other useful features you won't find in the Finder. You can launch Adobe Bridge just as you do any other application, or you can open or switch to it from within any CS2 app. Here's some of what Bridge offers.

**ENHANCED FILE SEARCHING** In addition to performing searches based on common criteria such as file name, creation date, and kind, you can search for metadata stored within documents, such as keywords, descriptions, fonts, and colors, and you can save search criteria as a collection for future searches.

**DRAG-AND-DROP FILE PLACEMENT** You can drag and drop graphics from Adobe Bridge into InDesign CS2 and Illustrator CS2 layouts. You can also drag InDesign objects into Adobe Bridge and then drag these Snippets from Adobe Bridge into any InDesign layout.



Use the Bridge Center to get CS2 tips.

**ADOBE STOCK PHOTOS** This service lets you search for, browse, compare, download, and purchase stock photos from several well-known stock photography providers.

Other features that are available only if you use Bridge with the complete Creative Suite 2 include the Bridge Center, which provides access to RSS feeds and tips, centralized color management, and integration with Version Cue (see p43).

Bridge is undeniably powerful, but it also suffers from its own bulk. For example, the ability to drag and drop images and objects between Bridge and other CS2 apps is undeniably useful—however, to do this effectively requires a lot of screen real estate. Although Adobe Bridge offers a Compact display option that minimizes its window, you can't see much in this mode, which greatly reduces its usefulness. If you like Bridge, you'll want to consider a two-display setup so you can dedicate one display to Bridge.—John Cruise



**COMPANY:** Adobe  
**CONTACT:** 800-833-6687,  
www.adobe.com  
**PRICE:** \$699 (full), \$169 (upgrade)

**REQUIREMENTS:** G3, Mac OS  
10.2.8 or later, 256MB RAM, 870MB  
disk space

**GOOD NEWS:** Lots of useful new features. Improved

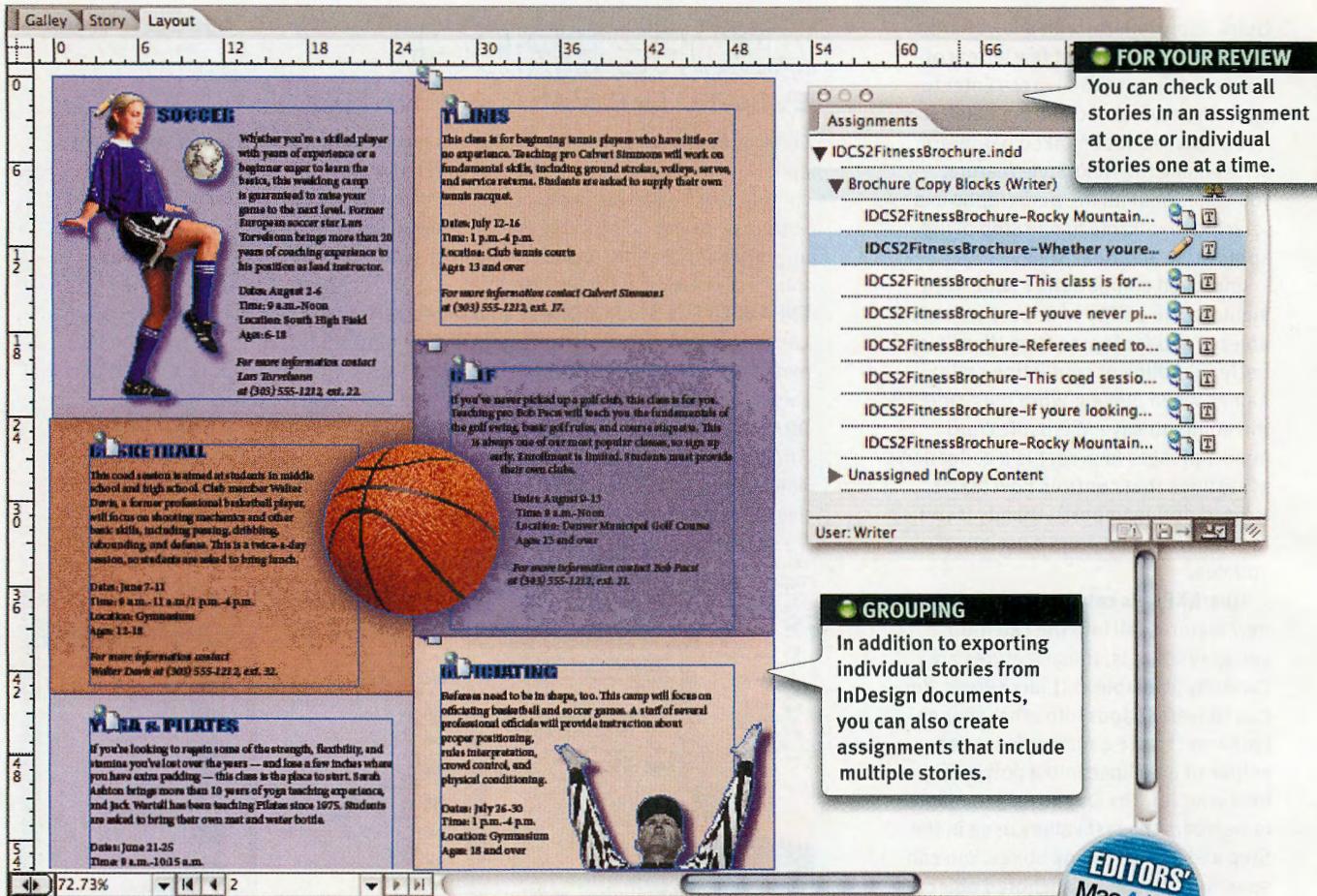
compatibility with Word.

**BAD NEWS:** No killer new design features. A few  
annoying deficiencies.

**MacAddict RATED**



**GREAT**



**FOR YOUR REVIEW**

You can check out all stories in an assignment at once or individual stories one at a time.

**Assignments**

- IDCS2FitnessBrochure.indd
- Brochure Copy Blocks (Writer)
- IDCS2FitnessBrochure-Rocky Mountain...
- IDCS2FitnessBrochure-Whether you...
- IDCS2FitnessBrochure-This class is for...
- IDCS2FitnessBrochure-If you've never pl...
- IDCS2FitnessBrochure-Referees need to...
- IDCS2FitnessBrochure-This coed sessio...
- IDCS2FitnessBrochure-If you're looking...
- IDCS2FitnessBrochure-Rocky Mountain...

► Unassigned InCopy Content

User: Writer

**GROUPING**

In addition to exporting individual stories from InDesign documents, you can also create assignments that include multiple stories.

**EDITORS' MacAddict CHOICE**

# InCopy CS2

## STRONG WRITING AND EDITING INDESIGN-COMPANION APP

Although InDesign CS2 (p40) has several new word-processing features, it's still more suited for page-layout tasks than for industrial-strength editorial work. That's where InCopy CS2 comes in. While the new version of InCopy doesn't include an abundance of new features, the improvements make an already potent app even more powerful.

Previous versions of InCopy only let you export individual stories; if an InDesign story included several photos and captions, for example, the story and each caption had to be exported as separate files. InCopy users were forced to check out and work with each

file separately. With InCopy CS2, an InDesign user can now group multiple page elements into a single assignment. An InCopy user can then check out the entire assignment and work on all of its files at once. Hooray for solidarity!

**Word support.** All of InDesign CS2's word-processing enhancements have also found their way into InCopy CS2. Enhanced Microsoft Word compatibility lets you open Word documents, map Word styles to InDesign styles as you import a Word document, resolve style-name conflicts during Word import, deal with anchored objects in Word documents, and save Word import presets. New text-handling features let

you drag and drop text, auto-correct spelling errors, display WYSIWYG font previews, automatically create bulleted and numbered lists, and add footnotes. All the new features may have you rethinking whether you need Word at all.

While InCopy is primarily a tool for working with the text in InDesign layouts, CS2 adds graphics support—after all, when was the last time you worked with just text? You can export graphics frames—empty or filled with content—that InCopy users can check out and modify by moving, scaling, rotating, shearing, or placing graphics. You can't, however, resize a graphics frame with InCopy CS2; that can be done



**COMPANY:** Adobe  
**CONTACT:** 800-833-6687,  
[www.adobe.com](http://www.adobe.com)  
**PRICE:** \$249

**REQUIREMENTS:** G3, Mac OS  
 10.2.8 or later, 256MB RAM, 575MB  
 disk space

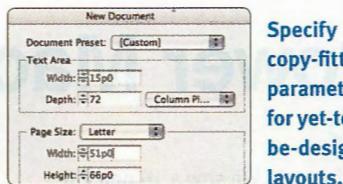
**GOOD NEWS:** New features make a solid application even better.  
**BAD NEWS:** Configuring and using InCopy CS2, InDesign CS2, Adobe Bridge, and Version Cue CS2 requires significant administrative work.

**MacAddict RATED**  
  
**AWESOME**

only in InDesign.

In addition to the option of exporting InDesign text frames as InCopy stories, InCopy users can also create stories to be added to an InDesign layout later, adding more flexibility to your workflow. When you create a new InCopy story from scratch, you can include copy-fitting parameters (such as column width and length measured in words, lines, pages, or column picas). Then, when you create your InDesign layout, your parameters are used in the layout.

**The bottom line.** For collaborative workgroups that include writers,



Specify copy-fitting parameters for yet-to-be-designed layouts.

editors, and designers, InCopy CS2 is an invaluable tool that lets writers and editors work on text while designers work on InDesign layouts in parallel—together, Adobe's powerful production partners can reduce bottlenecks and shorten the time it takes to produce publications.—*John Cruise*

## ADOBE VERSION CUE CS2

### INVALUABLE FILE-MANAGEMENT UTILITY

Designed for both individual users and small workgroups, Version Cue lets users of Creative Suite apps share and track files, save and revert to historical versions, and manage alternate versions of files.

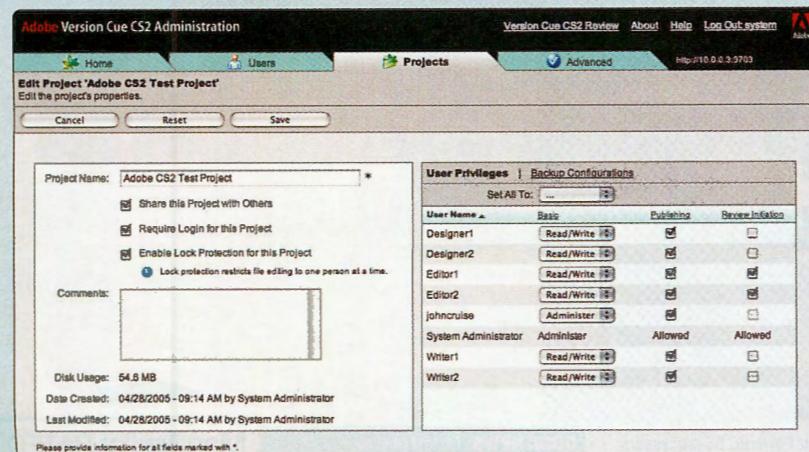
Version Cue CS2 works much the same as the previous version. You can use Version Cue in a peer-to-peer configuration (in which files are stored on individual users' computers) or in a server-based configuration (in which files are stored on a dedicated networked computer). Here are the notable new features:

**ALTERNATES** You can save historical versions of both Adobe and non-Adobe files and revert to any previous or alternate version of a file. An alternate can be a variation of a design based on a previous version or a completely different design.

**ADobe BRIDGE INTEGRATION** Version Cue projects and the files they contain are displayed in Adobe Bridge (see p41), which includes several features for working with Version Cue files. For example, display options let you view versions and alternates, and you can promote a previous version or an alternate to the current version.

**PDF REVIEW** Version Cue now has a set of tools that let you manage PDF-based reviews. You can initiate reviews, invite users, view their comments, and manage the review cycle—all from within the Version Cue Administration Utility.

Version Cue is an optional component of Creative Suite 2; you don't have to use it, but you'll find it invaluable.—*John Cruise*



Use the Version Cue Workspace Administration Utility to manage users' editing privileges.

## Never Lose Anything Again



Photos, e-mails, graphics, documents. Who knows what you've got hidden away?

NoteBook takes all those snippets and turns them into searchable catalogs of information. Find anything instantly.

Publish to the web in one step. NoteBook puts you in the driver's seat.

You can take control. NoteBook can help.

Try NoteBook free for 30 days.

## Introducing Circus Ponies™ NoteBook



Powerful outlining and organizing for your ideas!

Free demo at [www.circusponies.com](http://www.circusponies.com)



© Copyright 2005 Circus Ponies Software, Inc. All Rights Reserved. Circus Ponies, the Circus Ponies logo, NoteBook, and the NoteBook logos and icons are trademarks of Circus Ponies Software, Inc.

# Dual 2.7GHz Power Mac G5

## EVEN-MORE-BLAZING TOWER MAC

Apple's new dual 2.7GHz Power Mac G5 supplants the dual 2.5GHz Power Mac G5 (Nov/04, p38) as the top-of-the-line Power Mac. In fact, the 2.5GHz dualie is no longer in Apple's product line—a dual 2.3GHz Power Mac (\$2,499), dual 2GHz Power Mac (\$1,999), and single 1.8GHz Power Mac (\$1,499) join the dual 2.7GHz Power Mac.

On the surface, the newest Power Mac G5 doesn't look any different from previous models; it still has the striking aluminum case and the same number of connectors (three USB 2.0, one FireWire 800, two FireWire 400, optical audio input and output, analog audio input and output). But it's what's inside that counts. The processors are faster, each with a 1.35GHz frontside bus. All Power Macs now come with a stock 512MB of RAM, a welcome improvement—though we still recommend you boost your RAM to at least 1GB. The stock Serial-ATA hard drive jumps from 160GB to 250GB, and the SuperDrive is now rated at 16x and can burn double-layer DVDs.

The video card, a 256MB ATI Radeon 9650 with one single-link and one dual-link DVI port, supports Apple's huge 30-inch Cinema Display (Feb/05, p36). If you want to run a pair of the 30-inchers (and make us all very jealous), you'll need to pay \$450 to upgrade to nVidia's GeForce 6800 Ultra DDL (Mar/05, p39).

Other internals remain essentially the same as the erstwhile 2.5GHz dualie: liquid cooling; three full-length PCI-X slots (one 133MHz 64-bit slot and two 100MHz 64-bit slots); and optional AirPort and Bluetooth—though Apple now uses Bluetooth Core Specification Version 2.0 + EDR (Enhanced Data Rate), which has better speed and improved error correction.

**Speed.** The dual 2.7GHz Power Mac is faster than the dual 2.5GHz Power Mac (well, duh), but the improvement

varies by task. We saw a 16 percent speed increase when performing a Photoshop CS2 Action on a 100MB file, while we only noted an eight percent increase when exporting a file to PDF in InDesign CS2. Exporting a movie in iMovie HD went 26 percent faster, and creating a DVD image in iDVD went 17 percent faster. Both Power Macs performed similarly when importing Alex Wise's *Front Porch* music CD in iTunes or running Unreal Tournament's 2004 flyby and botmatch tests. We ran all of our

**No, it's not a 3GHz G5—but it's oh so close.**

tests with the processor performance set to Highest in System Preferences > Energy Saver > Options.

As we mentioned earlier, the dual 2.7GHz Power Mac is liquid cooled, and our experience with this cooling system hasn't changed from its implementation in the dual 2.5GHz Power Mac. During CPU-intensive tasks, the fans make a lot of noise; you won't notice it if the Power Mac sits under your desk, but if it's on top, you may mistake a busy Power Mac for a busy municipal airport.

**The bottom line.** Now that Apple's upgraded its fastest Power Mac, things have only gotten better. The dual 2.7GHz Power Mac is brawny, bold, and blazing. We like it.—Roman Loyola

**TIP**

**PERFORMANCE**

Setting the Processor Performance (System Preferences > Energy Saver > Options) to Highest will cause the fans to work more and use more energy, but it will also provide a dramatic performance increase over the Automatic and Reduced settings.

PHOTOGRAPH BY MARK MADEO

**GOOD NEWS:** Fastest Mac ever. Can burn double-layer DVDs.

**BAD NEWS:** Relatively noisy.

**MacAddict RATED**

**GREAT**



**COMPANY:** Apple  
**CONTACT:** 800-795-1000 or 408-996-1010, [www.apple.com](http://www.apple.com)  
**PRICE:** \$2,999

**SPECIFICATIONS:** Dual 2.7GHz PowerPC G5 processors, 512MB DDR400 SDRAM, 512KB L2 cache, 1.35GHz frontside bus, 256MB ATI Radeon 9650, 250GB Serial-ATA hard drive, 16x double-layer SuperDrive.

# 1.42GHz eMac

SPEED-BUMPED ALL-IN-ONE MAC

What relevance does the eMac have when you can buy a 1.42GHz Mac mini for \$599 (Apr/05, p19)? If you look closely at the specifications, benchmarks, and prices, the eMac is worth considering—and in some cases, we suggest that you buy an eMac over a Mac mini.

The eMac has the same 1.42GHz G4 processor and 167MHz frontside bus as the top-of-the-line Mac mini. But at the stock configurations, that's where the similarities end. The Mac mini only comes with 256MB of RAM—add \$50 to the price to upgrade

to the eMac's stock 512MB. And while the eMac comes with a 8x double-layer SuperDrive, you have to pay an extra \$100 to upgrade the Mac mini's Combo Drive to a 4x single-layer SuperDrive. The eMac has a 64MB ATI Radeon 9600 video card; the Mac mini has a 32MB ATI Radeon 9200. The most important difference: The eMac uses a 3.5-inch, 7,200-rpm, 160GB hard drive, while the mini comes with a 80GB, 4,200-rpm notebook drive with no option to upgrade at purchase—although it's entirely possible that Apple could change the Mac mini stock configurations before you read this. If you adjust the price of the mini to include a SuperDrive and 512MB of RAM (which we installed in the mini we tested), the mini's price comes to \$749, \$250 less than the eMac—and if you buy a new display, keyboard, and mouse, the price of the mini climbs even higher. Factor in the hard-drive differences, and the eMac looks like a good deal.

**COMPANY:** Apple

**CONTACT:** 800-795-1000 or 408-996-1010,  
[www.apple.com](http://www.apple.com)

**PRICE:** \$999

**GOOD NEWS:** Improved speed. All-in-one design. Comes with double-layer DVD burner.

**BAD NEWS:** It's a 50-pound bruiser that's not as elegant as the iMac G5.

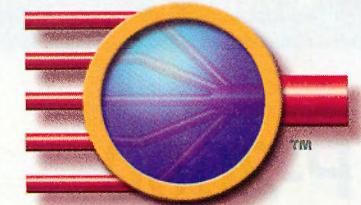


Remember me? I'm the forgotten eMac.

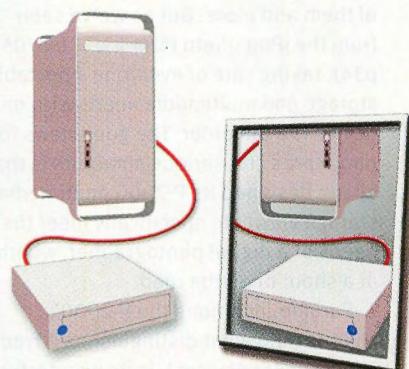
**Speed.** Even though the eMac and Mac mini we tested contained the same processor, frontside bus, and RAM, we saw significant speed differences in favor of the eMac. You can thank the eMac's hard drive—a Western Digital Caviar SE in our test unit. The eMac performed a Photoshop CS2 Action 37 percent faster than the Mac mini. The eMac duplicated a 2GB file in the Finder 46 percent faster than the mini. Ripping Alex Wise's *Front Porch* music CD to MP3 using iTunes went 21 percent faster on the eMac; creating a DVD image in iDVD went 32 percent faster. As we expected, the eMac also has much better video performance. The eMac was 59 faster than the Mac mini in our Unreal Tournament 2004 flyby test and 54 percent faster in the botmatch test.

**The bottom line.** The eMac is worth considering if you need a whole new Mac setup—Mac, keyboard, display, and mouse—on a budget.—*Roman Loyola*

**SPECIFICATIONS:** 1.42GHz PowerPC G4, 512MB DDR333 SDRAM, 512KB L2 cache, 167MHz frontside bus, 17-inch CRT monitor, 64MB ATI Radeon 9600, 160GB 7,200-rpm Ultra ATA/100 hard drive, double-layer SuperDrive.



## SoftRAID 3



SoftRAID mirrors your data onto two or more disks for...

Real-Time Data Protection that's

Better than Backup

Get a free demo at  
[www.softraid.com](http://www.softraid.com)

**SoftRAID, LLC**

44801 Main Street  
P.O. Box 1600  
Mendocino, CA 95460-1600



SoftRAID is a trademark of SoftRAID LLC. Mac and the Mac logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

# P-2000

## PHOTOGENIC AND PORTABLE MULTIMEDIA VIEWER

In a perfect world, portable multimedia devices could do everything we asked of them and more. But as we've seen from the iPod photo (Jan/05, p34), taking care of everyone's portable storage and multimedia needs with one device is a tall order. The good news for photo pros and serious amateurs is that Epson designed its P-2000 multimedia storage viewer to specifically meet the needs of a digital photographer, whether at a shoot or on the road.

Paramount among the P-2000's charms (and what distinguishes it from many similar devices), is its wonderful 3.8-inch, 212-pixels-per-inch LCD, capable of displaying 262,144 colors in a 640-by-480-pixel display. The size, sharp detail, and color rendition of the screen are a giant leap over viewing images on your camera's LCD—or, for that matter, on an iPod photo. The P-2000's LCD provides enough detail and clarity whether you're selecting shots to send to a client or just determining whether you got the shot you needed.

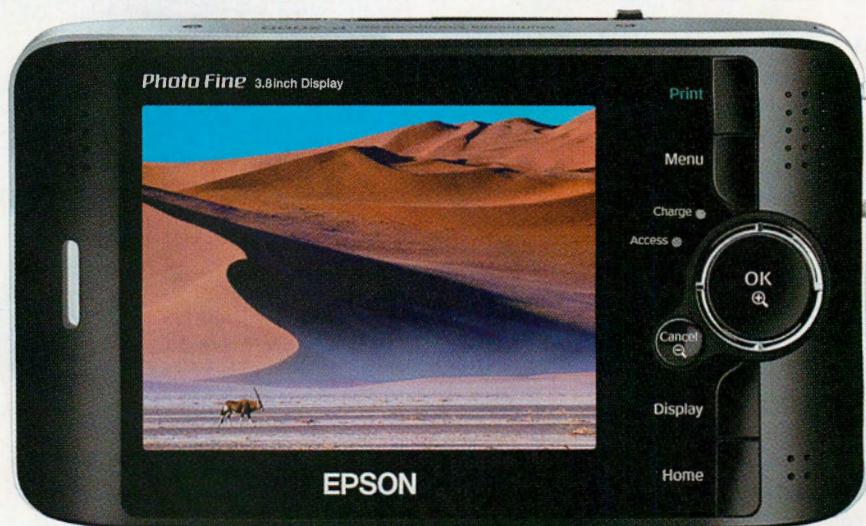
Zooming in and panning around to check detail is quick and easy for JPEG files. Press the Display button, and camera EXIF (Exchangeable Info File Format) data pops up (Epson says it will soon release a firmware upgrade to add histogram info). You can also view the thumbnail embedded in some RAW files, though at press time, the P-2000 only supported RAW files from many Canon, Epson, and Nikon cameras. You can even watch full-screen video clips recorded by many digital still cameras that use MPEG-4 or Motion JPEG, but not MPEG-1, MPEG-2, or DVD-Video.

**More than photos.** The P-2000 has slots for CompactFlash Type I and II (including Microdrives) and SD/ MultiMedia cards (you need an adapter,



### RAW OR JPEG?

Shoot with RAW if you need excellent image quality and the most flexibility for image manipulation. Your file sizes will be much larger, however.



**Bigger and bolder than the iPod photo.**

sold separately, to use your Memory Stick, xD, or SmartMedia cards). When you fill up your camera's memory card, transferring your photos to the viewer's 40GB drive is straightforward; simply insert the card and navigate through the P-2000's LCD interface to the memory-card icon. You can browse the images on your card if you like or just copy 'em all to the P-2000 and worry about them later. You can also have the P-2000 automatically delete images from the card after they're copied and verified by the device. One big advantage over the iPod photo: You can delete photos from the card before you import them or from the P-2000 after you've imported them. Transfer time is fairly quick; we copied a 256MB SanDisk Ultra CompactFlash card, filled with Nikon RAW files (NEFs) and JPEGs, in about 2 minutes, 45 seconds.

The P-2000 plays music, too—both MP3 and AAC formats—though not the protected AAC format used by the iTunes Music Store. The device even sports a small speaker in case you need to (quietly) listen to music without

headphones. Sadly, however, the music-playing features are rudimentary—there's no support for playlists or shuffle play. While such features could potentially be addressed by a future firmware upgrade, audio is clearly not the P-2000's selling point.

The P-2000 can act as a USB 2.0 external hard drive, as well. You can also hook it up to your TV and view an easily created slide show of images, with or without music—for the price, however, it would have been nice if Epson included a video cable. Five background tunes are included, including thrilling musical masterworks such as Happy, Autumn, and Jazz, but you can add up to three of your own MP3s for slideshow audio—too bad you can only use one tune per slide show.

**The bottom line.** While the P-2000's audio capabilities are somewhat limited, the device does perform exceedingly well at what it was created to do—clear your camera cards and display images and videos in striking detail. Now, if it were also an iPod-class music player and a Wi-Fi-enabled PDA? Well, then we'd truly be living in a perfect world.  
—Michael J. Shapiro

**COMPANY:** Epson

**CONTACT:** 800-463-7766,

[www.epson.com](http://www.epson.com)

**PRICE:** \$499.99

**REQUIREMENTS:** USB-equipped Mac;

Mac OS 9.1 to 9.x; 233MHz G3, 128MB

RAM; Mac OS 10.2 or later: 700MHz G3,

256RAM; 50MB disk space

**GOOD NEWS:** Built-in memory-card slots. Big, glorious display. Intuitive interface. Upgradeable firmware.

**BAD NEWS:** Rudimentary music-playing features. Limited RAW support. Video cable must be purchased separately.

**MacAddict RATED**



**GREAT**

# 20-Inch 2GHz iMac G5

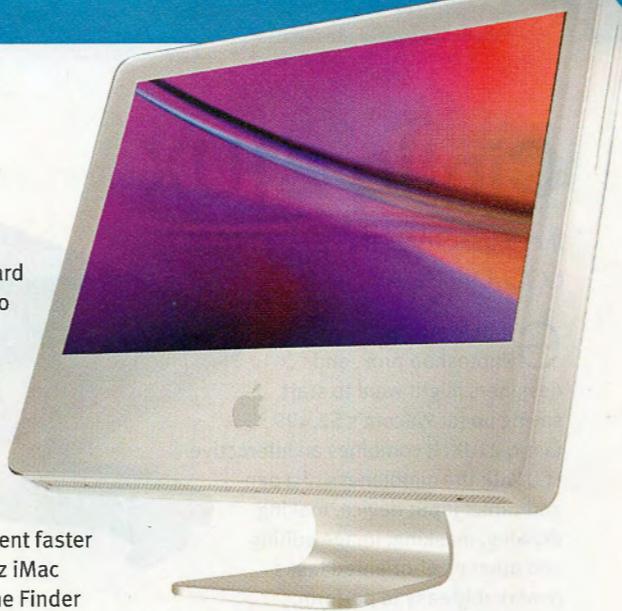
## BUFFED-UP ALL-IN-ONE MAC

How do you make the iMac G5 better? By adding all kinds of juicy upgrades that'll make you drool—and envious if you already have an iMac G5. The top-end iMac is now a 2GHz baby; and while you can still buy a 1.8GHz iMac G5 (\$1,299, [www.apple.com](http://www.apple.com)), it's only available with a 17-inch display.

What else has changed from the 20-inch 1.8GHz iMac G5 (Dec/04, p38)? There's the bump in stock RAM from 256MB to 512MB (yes!), a SuperDrive that can burn double-layer DVDs, a bigger (up to 250GB from 160GB) 7,200-rpm Serial-ATA hard drive, and a boosted 128MB ATI Radeon 9600 video subsystem. Apple also now includes Gigabit Ethernet, Bluetooth,

and AirPort Extreme as standard hardware—but you still have to pay an additional \$60 if you want a wireless mouse and keyboard.

**Speed.** Yup, this iMac is faster than the one it replaces. For example, the 2GHz iMac performed a Photoshop CS2 action 24 percent faster than its predecessor. The 2GHz iMac also duplicated a 2GB file in the Finder 46 percent faster, exported a QuickTime movie in iMovie HD 10 percent faster, and created a DVD disc image in iDVD 14 percent faster. However, the two iMacs performed at similar speeds when importing a music CD into iTunes.



**A good thing gets better.**

**The bottom line.** We liked the original iMac G5. Now we like it even more.

—Roman Loyola



**COMPANY:** Apple  
**CONTACT:** 800-795-1000 or  
408-996-1010, [www.apple.com](http://www.apple.com)  
**PRICE:** \$1,799

**SPECIFICATIONS:** 2GHz PowerPC G5, 512MB DDR400 SDRAM, 512KB L2 cache, 667MHz frontside bus, 20-inch LCD, 128MB ATI Radeon 9600, 250GB Serial-ATA hard drive, double-layer SuperDrive.

**GOOD NEWS:** Faster and more features than previous iMac G5.

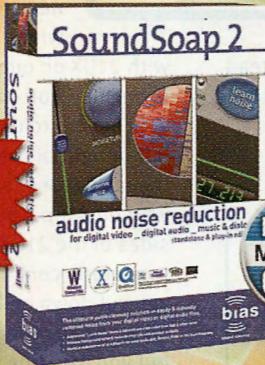
**BAD NEWS:** Can't adjust display height. No FireWire 800 or front FireWire and USB ports.

**MacAddict RATED**  
  
**GREAT**

PHOTOGRAPH BY MARK MADEO

## Restore your LP records, tapes and DVs — Quickly & Easily!

**SoundSoap 2**  
Leaves even the  
filthiest audio  
sparkling  
clean!



- Buffs out scratches from vinyl LPs
- Wipes out hiss, hum, and other noise from tapes or DVs
- New Enhance leaves a fine polish
- Tough on grime, yet gentle on your signal



**Peak LE**  
The easiest way  
to record, edit &  
burn audio on  
the Mac!

- Record or import audio into your Mac
- Edit and process your audio
- Create custom fade-ins and outs
- Assemble tracks in a playlist and burn your own audio CD!

Discover for yourself how easy and fun they are to use.  
Check out the demo on the MacAddict CD or visit  
[www.bias-inc.com/downloads/freetrials](http://www.bias-inc.com/downloads/freetrials)

**bias**  
sound creative

# Cintiq 21UX

IMPRESSIVE INTERACTIVE LCD DISPLAY

Graphic artists, Photoshop pros, and designers might want to start saving up for Wacom's \$2,499 Cintiq 21UX. It combines an interactive LCD with the nimbleness of a pen-and-tablet input device, making drawing, masking, image editing and other pixel-oriented tasks remarkably easy to perform.

The 21UX has a 21.3-inch LCD, and you use a Wacom Grip Pen to directly control and edit items onscreen. To move the cursor, for example, place the pen on the screen and drag it. Open files and apps by lightly tapping twice on the icon or by tapping the icon and then pressing the programmable rocker switch on the side of the pen (by default, the bottom of the switch acts as a right-click, and

## After trying the 21UX, using a mouse seems so passé.

the top acts as a double-click). A durable acrylic cover protects the display—the pen didn't scratch the cover during our extensive testing; it even withstood having our arms rest on it while we worked. The cover goes over the display's bezel, as well, which means that there are no seams around the display to get in the way of your pen.

Where the 21UX truly shines is with graphics applications such as Adobe Photoshop, Corel Painter, or Adobe Illustrator. The 21UX's stand lets you

angle the display from 10 to 65 degrees, so you can prop it up like a typical display or lay it down so you can "write" on it like an artist with a pencil and paper. You can even take the 21UX out of its stand and lay it completely flat on your desk. In this position, tasks that require pixel-by-pixel accuracy (such as masking or drawing) can be done with ease. For example, when creating a mask in Photoshop, you can literally trace an outline of the image with the pen instead of having to rely only on your eye and the cursor.

**Handwriting recognition.** You can use OS X's Ink technology (System

cover that didn't scratch from the pen during our testing, and it also held up to our arms resting on the screen (we'll elaborate later).

Where the 21UX truly shines is with graphics applications such as Photoshop, Corel Painter, or Adobe Illustrator. The 21UX's stand has 10 degrees of angle movement, so you can prop it up like a typical display, or lay it down like an artist on a traditional drawing table, using paper and pencil. With the 21UX, you can "write" on it like an artist with a pencil and paper. You can even take the 21UX out of its stand and lay it completely flat on your desk. In this position, tasks that require pixel-by-pixel accuracy (such as masking or drawing)

With Apple's Ink technology, you can use handwriting recognition in Word.

such as masking or drawing



**COMPANY:** Wacom

**CONTACT:** 800-922-9348,

[www.wacom.com](http://www.wacom.com)

**PRICE:** \$2,499

**REQUIREMENTS:** USB-equipped

Mac, Mac OS 10.2.6 or later, DVI or

VGA video

**GOOD NEWS:** Easy to set up. Accurate tracking. Makes pixel-accurate tasks easier.

**BAD NEWS:** Where do you put your keyboard? LCD brightness may tire your eyes. OS X's Ink takes lots of practice to learn. Pricey.

**MacAddict RATED**



**GREAT**



Twenty-one inches  
of interactive glory.

Preferences > Ink) in apps such as Microsoft Word, Final Draft, or Apple's Mail to convert your handwriting into editable text. It takes practice to learn the nuances of Ink (such as how legibly you need to write and how to space your words), and it'll take some time before you master all the gestures for creating spaces, deleting words, capitalizing letters, and more.

It's worth the effort to learn Ink, however, since we never quite could figure out where to put our keyboard

with 21UX on our desk—with the 21UX laying flat, you can't help but lean into your keyboard unless you place it to the left or right of the display (if you have the space) or in a keyboard tray under your desktop. The ExpressKeys on the sides of the 21UX can be programmed to perform common tasks, and Ink helps you cut down on how often you need to go to the keyboard to write something, but you won't be able to get rid of your keyboard completely.

**The bottom line.** After trying the 21UX, using a mouse seems so passé. Interactive displays are the new hotness. We're impressed.—Roman Loyola

EDITORS'  
MacAddict  
CHOICE

# IceTune and mm22 Portable Speakers for iPod

## SOUND iPod SPEAKERS

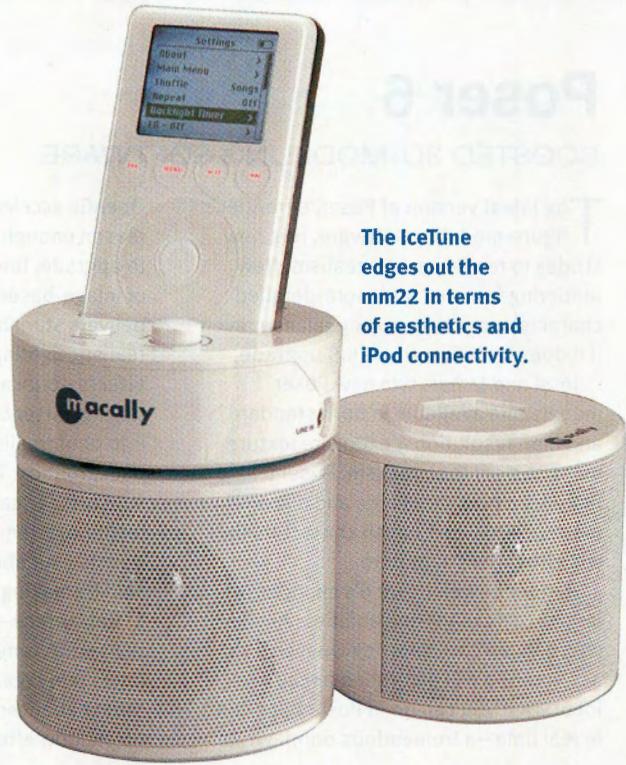
Macally's IceTune and Logitech's mm22 Portable Speakers for iPod are two of the newest iPod speaker sets on the market. Despite their contrasting designs, both are stylish, convenient, and budget-minded (\$69.99 and \$59.99, respectively) ways to air out your iPod's music.

The two-pound, cylindrical IceTune comprises two 4-inch-round-by-3.5-inch-high speakers and a 4-inch-round-by-1.5-inch-high dock. The dock's bottom glows a cool blue when switched on and can hold any dockable iPod as long as you have the right adapter installed (three are included). There's no battery-power option or protective case, so portability is definitely a weakness. And the small dent we found in our IceTune right out of the box made

iPod photo, iPod mini, or third- or fourth-generation iPod, you can connect other audio devices—the mm22 simply draws sound through a stereo mini-jack cable. To live up to its iPod focus, Logitech includes three cradles to mount your particular iPod onto the mm22. Each cradle has a slotted bottom to accommodate FireWire- and USB-dock connector cables.

**Design.** IceTune's setup is very flexible. You can spread its speakers out as far as their cords will allow—about two feet each—or you can stack everything up for a neat eight-inch-high cylinder of sound. It has an additional line-in jack, and the dock makes quick work of connecting your iPod—drop your iPod in, turn on the power, and you're set. Plus, your iPod will recharge itself while sitting pretty. Unfortunately, the dock isn't without its quirks: Its slick bottom has no rubber feet to grip smooth surfaces, so expect it to go slidin' away when you press your iPod's clickwheel.

All in all, there really isn't much to the mm22; unfold its speakers and stand, slide the proper cradle on, pop in your iPod, and connect an audio cable



The IceTune edges out the mm22 in terms of aesthetics and iPod connectivity.

from its line-in jack into your iPod's headphone jack. If you choose to run the unit on batteries (it takes four AAAs), you'll get over 5.5 hours of airtime. That's plenty for your next shindig, but make sure your iPod is charged, because the mm22 can't charge it.

Four drivers deliver the mm22's sound, compared to the IceTune's two. We found that both the mm22 and IceTune were powerful enough to fill a reasonably sized room with minimal distortion, but neither wowed us with its audio prowess. We favored the mm22 and its range of decent highs and mids and punchy bass over the IceTune, which sang tinny tones and sounded bland compared to the mm22.

**The bottom line.** The IceTune edges out the mm22 when it comes to aesthetics, versatility, and iPod connectivity. The mm22 wins when it comes to portability and sound quality.—*Gil Loyola*



Pick the mm22 if you're looking for portability and sound quality.

us think twice before putting the speakers in a backpack; a rough-and-tumble journey could yield one battered-looking set of speakers.

The mm22's strong suit is its portability—it has foldable speakers, a battery-power option, and a durable carrying case. The entire unit measures about 2.5 by 9 by 1.5 inches with speakers and stand folded, and it weighs only 10.3 ounces (20 ounces packed in its case with its power adapter and other accessories thrown in). Even though the mm22 is designed for an

## IceTune

**COMPANY:** Macally  
**CONTACT:** 626-338-8787, [www.macally.com](http://www.macally.com)  
**PRICE:** \$69.99  
**REQUIREMENTS:** Dockable iPod or iPod mini

**GOOD NEWS:** Attractive design. Charges your iPod while docked.  
**BAD NEWS:** No rubber feet for support. Bland sound.

MacAddict RATED  


## mm22 Portable Speakers for iPod

**COMPANY:** Logitech  
**CONTACT:** 510-795-8500, [www.logitech.com](http://www.logitech.com)  
**PRICE:** \$59.99  
**REQUIREMENTS:** Dockable iPod or iPod mini

**GOOD NEWS:** Portable. Can run from batteries.  
**BAD NEWS:** Doesn't charge your iPod while docked.

MacAddict RATED  


# Poser 6

## BOOSTED 3D-MODELING SOFTWARE

The latest version of Poser, e frontier's figure-modeling software, hits new strides in rendering and realism. New rendering features and more-detailed characters make it a strong release, even if it does feel more like a 5.5 upgrade.

Jessi and James, two new Poser models, are available in both standard and high resolutions; exquisite texture maps cement their realism. Poser 6 also features a new set of kids and a few other more-bizarre, cartoonish characters that will either delight or bore.

**Render power.** Poser 6's changes are largely in its rendering abilities. Anyone with a video card sporting OpenGL acceleration will be thrilled because a lot of what you can do in Poser happens in real time—a tremendous boon. While

OpenGL acceleration is a reason enough for many to upgrade, the addition of image-based lighting delivers stunningly realistic lighting effects—critical for placing Poser creations into photorealistic backgrounds. The new subsurface scattering technique tremendously boosts your ability to create convincing skin by making it semi-translucent at the surface—and it works without raytracing, a neat feat that keeps render times fairly reasonable. A variety of other enhancements include beefed-up shadow effects, a cartoon-style



The new Jessi character is a real looker, and she won't complain if you want to go out with the guys.

rendering effect, and an auto-balancing feature that makes it much easier to put Poser people into proper positions.

**The bottom line.** Owners of previous versions will want to upgrade, and new users will appreciate Poser's flexibility.

—David Biedny



**COMPANY:** e frontier

**CONTACT:**

[www.e-frontier.com](http://www.e-frontier.com)

**PRICE:** \$249 (full), \$129 (upgrade)

**REQUIREMENTS:** 500MHz G3,

Mac OS 10.2 or later, 256MB RAM,

500MB disk space

**GOOD NEWS:** Excellent new characters. Potent rendering and

lighting options. Great value for the money.

**BAD NEWS:** One undo level.

**MacAddict RATED**



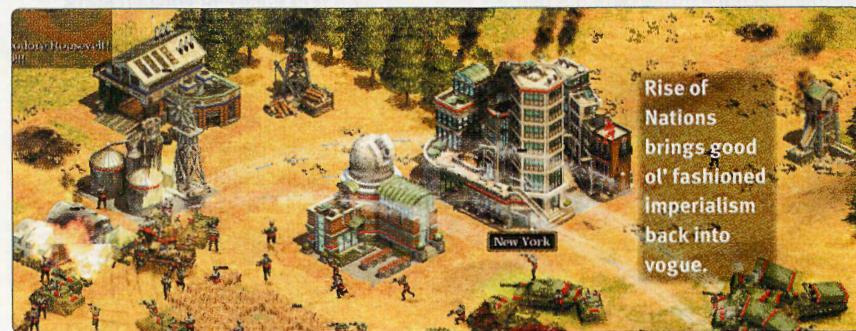
**GREAT**

# Rise of Nations: Gold Edition

## FAST, FRANTIC, AND FUN REAL-TIME STRATEGY GAME

In *Rise of Nations: Gold Edition*, a unique real-time strategy game, you can rewrite history while leading 24 nations through eight stages of historical development.

In typical real-time strategy fashion, you create cities, manage your resources by keeping your workers on their toes, and develop your technology, economy, and military. The major difference in *Rise* is that you can quickly climb up your research tree. Start a game in the Ancient Age with stone axes, and in about 30 minutes you can be driving tanks and planes over your opponent's capital city; in Age of Mythology (\$19.99, [www.macossoftgames.com](http://www.macossoftgames.com)), it takes an hour and a half to run up the technology tree in a multiplayer skirmish.



*Rise of Nations* brings good ol' fashioned imperialism back into vogue.

[.macossoftgames.com](http://www.macossoftgames.com)), it takes an hour and a half to run up the technology tree in a multiplayer skirmish.

**Conquer the world.** Once you have mastered the basics, *Rise* introduces you to its Conquer The World campaigns. Play as Napoleon, for example, and an interface much like that of the board game *Risk* shows Europe divided into territories; playing pieces represent you and your various opponents. Move your pieces to invade a territory, play bonus

cards to give yourself various starting advantages (higher technology or more troops), and then the true battle begins.

*Rise* improves on the traditional RTS interface. When your military units get mixed up with a group of peasants, you can select only the warriors, which greatly helps you redirect your troops.

**The bottom line.** Once you get past the 2D graphics, repetitive music, and bland units, there's some great strategy gaming to be had.—Matt Osborn



**COMPANY:** MacSoft

**CONTACT:** 763-231-8100,

[www.macossoftgames.com](http://www.macossoftgames.com)

**PRICE:** \$49.99

**REQUIREMENTS:** 600MHz G4, Mac OS

10.2.8 or later, 256MB RAM, 32MB VRAM,

1GB disk space, Internet connection and Game

Ranger account (free) for online play

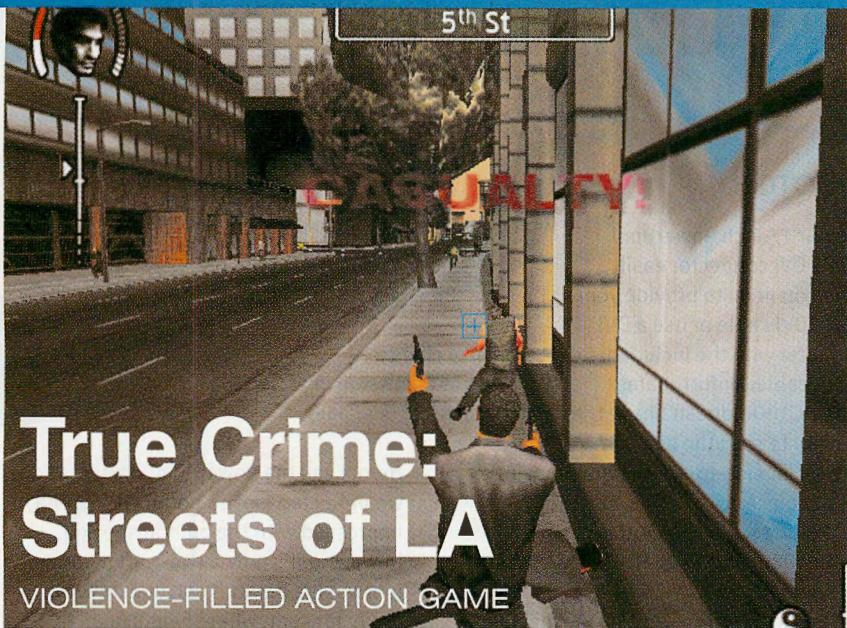
**GOOD NEWS:** Runs well on older-generation Macs. Awesome game balance. Cold War campaign is the bomb.

**BAD NEWS:** 2D graphics. Most nations' units look too similar. Can be repetitive.

**MacAddict RATED**



**GREAT**



# True Crime: Streets of LA

VIOLENCE-FILLED ACTION GAME

True Crime: Streets of LA has made the trip from the game console to the Mac, and it's as senselessly violent, rude, and crude as you've heard, justifying its Mature ESRB rating.

True Crime combines many types of violent mayhem: fast driving, shooting, smashing chairs and tables and otherwise messing up the environment, and plenty of hand-to-hand combat with your mad martial-arts skills. Despite its console roots, True Crime plays much better with a keyboard and mouse than it does with a gamepad. If you do use a gamepad, you'll need to use your gamepad's software to configure the buttons for True Crime—you can't configure your pad within the game.

**Good cop, bad cop.** True Crime uses a good-cop/bad-cop rating system, indicated by an onscreen status display that lets you keep an eye on your karma. Playing by the book—identifying yourself as a cop and firing warning shots into the air instead of into a perp's face—will get you respect. Abuse your jurisdiction, and citizens treat you with fear, distrust, and general uncooperativeness.

Despite the game's linear, mission-based structure, the abundance of

**Throw the book or hot lead at 'em. You be the judge, jury, and executioner.**

short side missions (purse snatchings, hostage situations, and the like) give you plenty of distraction from the main storyline. How you perform your duties determines your rating, but deciding whether it's better to be good or bad isn't always clear. Often, taking the time to complete a side mission by the book to increase your good-cop rating blows the main mission and some of that good-cop karma.

The occasional jerky, imprecise movement of the controls can be annoying. Then there's the seemingly endless keyboard commands for good-cop actions like frisking and firing warning shots; we earned our massive bad-cop rating by defaulting to the good old mouse click to shoot anyone who looked remotely suspicious. Hand-to-hand combat doesn't require any more precision than simply mashing away at the relevant keys.

**The bottom line.** The novelty of True Crime goes a long way if you play in short bursts. When we want to blow off a little steam in the most antisocial way, we'll be turning to True Crime.

—Niko Coucouvanis

**COMPANY:** Aspyr

**CONTACT:** 888-212-7797 or 512-708-8100,

[www.aspyr.com](http://www.aspyr.com)

**PRICE:** \$49.99

**GOOD NEWS:** Badass kung fu moves. Finally, a popular console game comes to the Mac. Sates our bad-cop fantasies.

**BAD NEWS:** Jerky controls and character movement. Too many keyboard commands. Goofball plot and dialog.

**REQUIREMENTS:** 1GHz G4, Mac OS 10.2.8 or later, 256MB RAM, ATI Radeon 8500 or nVidia GeForce2 MX or better video card with 32MB VRAM, 3GB disk space, DVD drive

**MacAddict RATED**  
  
**SOLID**

## AirClickUSB

CONVENIENT WIRELESS APP CONTROLLER

The Griffin AirClickUSB is a handy little wireless remote and receiver pair that can control a variety of popular Mac apps, including QuickTime, DVD Player, iTunes, VLC, Keynote, PowerPoint, and Griffin's own Radio Shark (Feb/05, p46). Five buttons on the remote control include play/pause, next/fast forward, previous/rewind, volume up, and volume down.

Like most lil' MacGadgets, the AirClickUSB is easy to install—simply insert the Receiver Module into a USB port, insert the included CD, and follow the instructions. When you're done, an icon appears in your Mac's menu bar; click it, and a list of apps appears; choose an app, and it's yours to control. Cake.

We first tried the AirClickUSB with iTunes and easily controlled volume, song selection, and fast forwarding even from over 40 feet away—and since the AirClickUSB uses radio-frequency signals and not infrared technology, we could crank up the volume from the next room—although there was occasionally a delay in response time, and we sometimes needed to press a button twice to get a function to work.

**The bottom line.** We're willing to pay a small price in order to never have to get off our butt to skip past "MacArthur Park" again. The AirClickUSB makes a charming addition to our growing collection of little white toys.—Roxanne Myslewski

**COMPANY:**

Griffin Technology

**PRICE:** \$39.99

**CONTACT:**

615-399-7000, [www.griffintechnology.com](http://www.griffintechnology.com)

**REQUIREMENTS:**

USB-equipped Mac, Mac OS 10.3 or later



Control multiple apps from one remote.

PHOTOGRAPH BY MARK MAEDER

**GOOD NEWS:** Ridiculously easy to use. Good range of controllable apps.

**BAD NEWS:** Small buttons. Not always responsive.

**MacAddict RATED**  
  
**SOLID**

# HC100U

## CAPABLE HOME-THEATER PROJECTOR

It's not enough to have a TV in your living room nowadays; today, you have to have a home-theater system, complete with a nice, big display to view your growing DVD collection. But instead of a gargantuan TV that'll set you back several grand, consider a home-theater projector, instead. Mitsubishi's HC100U is built with your home-theater setup in mind—it's a nice DLP (digital light processing) projector that's ideal for watching movies.

The HC100U is small, measuring 12.2 by 3.9 by 9.6 inches and weighing 6.5 pounds. The back of the HC100U has digital DVI, VGA, component video, composite video, and S-Video connectors, as well as an audio-in port. We were able to connect the HC100U

to our 17-inch PowerBook G4's DVI connector easily, but you need to provide your own DVI cable or use a DVI adapter with the included VGA cable. Unfortunately, the HC100U doesn't have the ability to shift the lens up, down, or side-to-side without moving the projector.

**Pictures.** The HC100U is compatible with 1080i and 720p HDTV, Mac resolutions up to 1152 by 870, and NTSC, PAL, and SECAM video. On the included 73-inch screen, the images from the HC100U are quite nice—the color is even, blacks are saturated and clean, and detail is sharp. We didn't notice any hot spots while watching *Akira* or

**A reason to charge  
your friends admission to  
watch movies at your pad.**

**Hero.** Even the PowerPoint presentations we projected looked good. We weren't impressed with the built-in speaker, however—it's only a two-watt mono job, but it's handy if you plan to tote the projector somewhere (you'll need to supply your own carrying case).

**The bottom line.** The HC100U is a nice little projector for when you want to bring the cineplex into your living room.—*Roman Loyola*

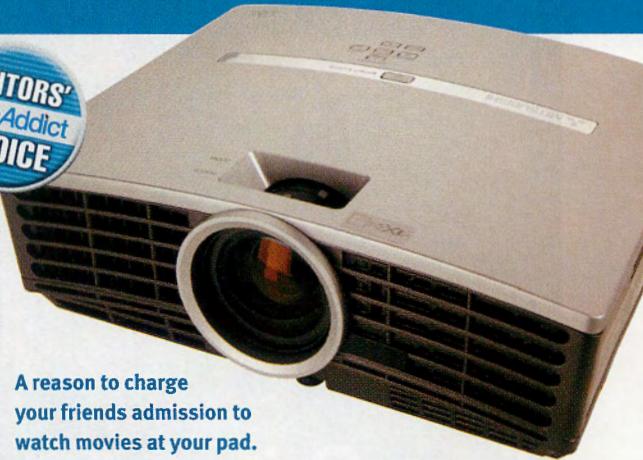


**COMPANY:** Mitsubishi  
**CONTACT:** 714-220-2500,  
[www.mitsubisielctric.com](http://www.mitsubisielctric.com)  
**PRICE:** \$1,495

**REQUIREMENTS:** Mac with DVI or VGA video connection.

**GOOD NEWS:** Good brightness and color quality. Deep blacks. Small. Includes 73-inch 16:9 screen.  
**BAD NEWS:** No lens shift. Doesn't come with a DVI cable or adapter. Mediocre speaker.

**MacAddict RATED**  
  
**GREAT**



# pzizz

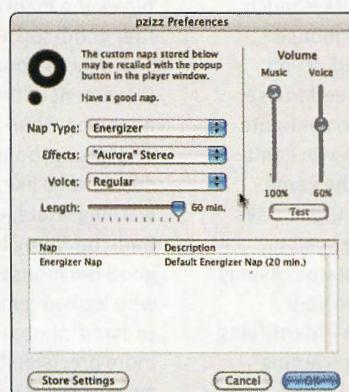
## SOOTHING NAP-TIME SOFTWARE

A good nap can revitalize you, but sometimes it's hard to relax after a lot of activity. With pzizz, you can clear your head and get in the mood for that power snooze. pzizz generates soothing sounds that you can export to your iPod and listen to as you sleep.

pzizz's Preferences dialog lets you set up a nap session based on Nap Type (which, curiously, has only one choice: Energizer), Effects (Mono or Aurora Stereo), Voice, Length (10 to 60 minutes), Music Volume, and Voice Volume. For example, you can set up a 15-minute Energizer nap with no voice in Mono audio. You can preview each session, save your settings, and then access each nap through a pull-down menu on pzizz's player interface.

However, you can't modify a set of stored settings; you have to create a new set of settings and delete the old set.

**Sound asleep.** pzizz's music starts with a gentle, gong-like chime, and proceeds with a variety of soft, new-age sounds—chords, white noise, gentle cadences, rolling waves, and more. The music clears your mind and is hypnotic enough to lead you to sleep. If the music's not enough, you can activate a soothing, male voice that says calming, helpful phrases such as, "Sometimes little daydreams can be of



**This screenshot is making you very, very sleepy...**

help to you." Six beeps mark the end of the audio and your nap time, but the beeps may not be enough to wake up heavy sleepers.

You can also export any of the nap sessions you create as MP4 files that you can move into iTunes and

load into your iPod. After all, it's easier to nap with your 'Pod than it is with your Power Mac.

**The bottom line.** pzizz doesn't boast a ton of features, but it is relaxing—and, no, we don't know how to pronounce it, either.—*Roman Loyola*



**COMPANY:** Xeric Design  
**CONTACT:** 775-832-5953,  
[www.xericdesign.com](http://www.xericdesign.com)  
**PRICE:** \$39.95

**REQUIREMENTS:** Mac OS 10.3.x or later, 53MB disk space.

**GOOD NEWS:** Calming and relaxing. Exports MP4 audio for your iPod.  
**BAD NEWS:** Can't change stored settings. Only one nap song. You have to wake up sometime.

**MacAddict RATED**  
  
**SOLID**



## AirClick

### CONFOUNDING IPOD REMOTE CONTROL

Look down to fiddle with an iPod while you're running or biking, and you might collide with the car or BabyBjörn-clad parent that just crossed your path. Enter AirClick, a remote control and receiver for your iPod or iPod mini. The AirClick works via RF, so you don't need direct line of sight between the remote and receiver.

Although the receiver adds a bit of awkward weight and height to the mini, the remote is lightweight and clips to clothing. Included Velcro bands let you attach the remote to handlebars or your wrist. A Hold switch prevents you from accidentally pushing buttons.

**Interference.** The AirClick has a few problems, however. While Griffin advertises a 60-foot range, we only got about 19—not a problem when jogging, but nowhere near the distance claimed. Even at the shorter range, it would often take several tries to get our button presses to register. Also, the remote features a weirdly arranged, unintuitive sideways-W button configuration. And while the remote lets you pause, repeat, skip, and change the volume of songs, it doesn't provide an option to move between playlists.

**The bottom line.** We're still searching for a better way to remotely control an iPod.—Cathy Lu

#### COMPANY:

Griffin Technology

#### CONTACT:

615-399-7000, www.griffintechnology.com

#### PRICE:

\$39.99

#### REQUIREMENTS:

iPod mini or third- or fourth-generation iPod

**GOOD NEWS:** Lightweight. No line of sight required.

**BAD NEWS:** Shorter range than advertised. Strange button layout.

**MacAddict RATED**  
  
**SO-SO**

# Suitcase Problems?



## Get FontAgent Pro!

**Guaranteed to Eliminate Font Problems or Your Money Back!\***

"FontAgent Pro is the best solution for font management on the Mac... my problems solved in seconds... the best experience I've had with a software vendor." **Jeffrey Blyseth, Axis Graphics**

"I have tried all the others. None of them come close to FontAgent Pro for speed, accuracy and reliability. The price is right, tech support treats you like a human and the product works as advertised. You can't ask for much more than that." **Chuck Sholdt, Weather Central**

"Font Agent Pro is a revolutionary product that has consistently afforded my customers relief where other font management products have failed to!" **Samuel A. Litt, author of Mac OS X Bible, Panther & Tiger Editions**

- Automatic font optimization
- Rock-solid stability
- Multiple font libraries
- Automatic library optimization
- Intuitive ATM-like interface
- Unrivaled auto-activation
- More ways to preview fonts
- Detailed font diagnostics
- Nested font sets
- Serverless font sharing

**Insider**

[www.insidersoftware.com](http://www.insidersoftware.com)

For more information,  
contact us today  
1-866-366-8778 (US)  
+1-520-229-1212 (Intl)

**TIGER  
READY!**



# FontAgent Pro 3

## ADEPT FONT MANAGER

When it comes to font management, Extensis's Suitcase has ruled the roost. Its flexibility and ease of use has made it an indispensable tool for managing fonts. But now Suitcase has a serious rival: FontAgent Pro. It has all the features you'd expect from font-management software, and then some.

Unlike Suitcase, FontAgent Pro works by moving or copying (your choice) your fonts into a special collection of folders (including system fonts, if you want); during this process, it checks for duplicates and corrupt fonts. The bad fonts are then weeded out and put aside. The end result is a nice clean set of fonts ordered by family and placed in alphabetical folders. Fonts can be activated and deactivated at will. You can

even manage multiple font libraries for different projects or even on a per-client basis.

FontAgent Pro's interface is easy to understand; fonts are listed

in families and shown in WYSIWYG form. New, helpful features in this version include font listings by format or activation status, an Import Wizard that makes it easy to add new fonts, and more. Auto-activation is faster than in previous versions, and you can now select which font sets to automatically



**End font frustrations now.**

open when you start up your Mac. If we have one criticism, it's that Insider Software needs a more-thorough manual with an easy explanation of font handling.

**The bottom line.** FontAgent Pro is a worthy contender to the Extensis crown. Suitcase had better look to its laurels if it wants to stay in the lead.—Mark Sparrow



**COMPANY:** Insider Software

**CONTACT:** 866-366-8778,

<http://fontagent.com>

**PRICE:** \$99.95

**REQUIREMENTS:** Mac OS 10.2 or

later, 7MB RAM, 5MB disk space

**GOOD NEWS:** Tests for corruption. Handles multiple libraries.

Simple Import Wizard.

**BAD NEWS:** Needs better documentation.

**MacAddict RATED**



**GREAT**

# Opus

## SATISFYING EARBUDS

What do you mean you haven't replaced your iPod headphones yet? Why are you putting up with the ill-fitting buds and mediocre sound—not to mention the telltale sign to thieves on a 'Pod hunt? If you're looking for an affordable upgrade, try Yahba's Opus, a nice set of earbuds that produce better sound than the standard iPod headphones.

The Opus buds have a silicon covering and extend into your ear canal to help seal out external noise. While we were comfortable with the fit, others may not be—and if you're the waxy type, keep a Q-Tip at the ready. Bass response is much better than the iPod buds', but not overemphasized as in some in-ear models we've tested. Highs and midrange sounds are clear and balanced with the bass.

**The bottom line.** For under \$30, the Opus headphones are a sound deal.—Roman Loyola

**COMPANY:** Yahba

**CONTACT:** [www.yahba.com](http://www.yahba.com)

**PRICE:** \$29.99

**REQUIREMENTS:** Earphone jack.



**Better than your 'Pod's bundled buds.**

# Hybrid Hardpack

## 'BOOK-FRIENDLY' BACKPACK

Axio's Hybrid Hardpack has a whole lotta room to hold stuff—2,671 cubic inches, according to the company. You can carry your Tiger-installation DVD (boxed), your iBook or PowerBook, the 922-page *Mac OS X Bible, Panther Edition* (\$29.99, [www.wiley.com](http://www.wiley.com)), an iSight, and more.

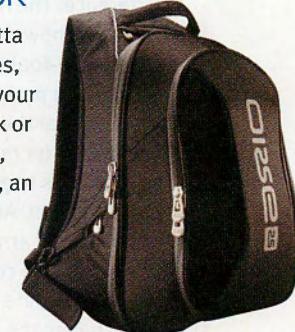
The Hybrid's water-resistant nylon has a semirigid foam body, so it's not just a canvas bag with straps. A separate foam case holds your 'Book—even a 17-inch PowerBook behemoth fits nicely. For maximum storage, you can remove the 'Book case for when you aren't lugging around your laptop. Plus, there are pockets galore. The Hybrid might be too big, however, for a young teen or someone with a small build.

**The bottom line.** The Hybrid is comfortable, attractive, and has lots of storage space. What's not to like?—Roman Loyola

**GOOD NEWS:** Good sound quality. Affordable.

**BAD NEWS:** They live inside your ear, so you may or may not find them comfortable.

**MacAddict RATED**



**Made for haulin'.**

**COMPANY:** Axio

**CONTACT:** 888-734-1774,

[www.axio-usa.com](http://www.axio-usa.com)

**PRICE:** \$180

**REQUIREMENTS:** A healthy back helps.

**GOOD NEWS:** Lots of storage space. Sturdy.

**BAD NEWS:** May be too big for slight builds.

**MacAddict RATED**



# the Hot List

THE BEST OF THE BEST FROM RECENT REVIEWS

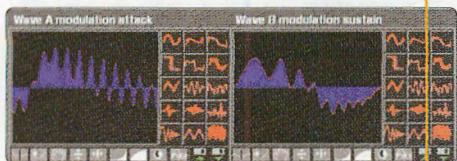
SHOPPING?  
HERE'S WHAT WE  
RECOMMEND



## NEW THIS MONTH

### Bias SoundSoap 2

Digital-audio expert Andrew Tokuda says that SoundSoap Pro's little brother "does a fine job at cleaning audio."



### MetaSynth 4

Composer and all-around digital-media guru David Biedny calls this unique synth "the closest thing to a groundbreaking app we've seen in a while."



### Final Cut Express HD

According to videographer Helmut Kobler, the addition of HDV support, Soundtrack music software, and LiveType titling makes this editing suite "a great deal."



### Better Energy Systems Solio

Reviews Editor Roman Loyola calls this solar-powered iPod charger "a near-perfect iPod companion."

## SOFTWARE

### AUDIO

Ableton Live 4	\$499.00	Jan/05, p43	This top real-time sequencer now has improved MIDI powers.
Bias SoundSoap 2	\$99.00	Jul/05, p37	SoundSoap Pro's little brother is a capable audio cleaner.
Native Instruments Reaktor 4	\$559.00	Jun/04, p56	If you can imagine a sound, you can create it with this synth.
U&I Software MetaSynth 4	\$499.00	Jul/05, p34	"Outrageous" is the only fitting description for this unique synth.

### GAMES

Aspyr Doom 3	\$49.99	Jun/05, p48	Hellish, scary fun—but not for the faint of hardware.
Blizzard World of Warcraft	\$49.99	Apr/05, p40	This rich online role-playing game is more addictive than nicotine.
MacSoft Halo: Combat Evolved	\$49.99	Mar/04, p38	It's as awesome as your Xbox buddies say it is.
MacSoft Unreal Tournament 2004	\$39.99	Jun/04, p48	The best first-person shooter adds new vehicles and weapons.

### GRAPHICS & LAYOUT

Adobe InDesign CS2	\$699.00	Aug/05, p40	A strong upgrade to the world's most feature-rich layout app.
Adobe Photoshop CS2	\$599.00	Aug/05, p38	A raft of new photo-focused features makes this upgrade rock.
Adobe Photoshop Elements 3.0	\$89.99	Mar/05, p36	Adobe's affordable image editor gets a significant upgrade.
Corel Painter IX	\$429.00	Feb/05, p38	This natural-media champ is now faster and more capable.
Strata 3D CX	\$695.00	Dec/04, p43	Whether you're a 3D newbie or expert, this app's for you.

### PRODUCTIVITY & UTILITIES

Bare Bones Software BBEdit 8.0	\$199.00	Jan/05, p36	By far the most powerful text editor money can buy.
FileMaker Pro 7	\$299.00	Jul/04, p46	A complete rewrite vaults this database into the big leagues.
Microsoft Office 2004	\$399.00	Aug/04, p42	Enhancements to every app add up to a worthy upgrade.

### VIDEO & ANIMATION

Adobe After Effects 6.5	\$699.00	Sep/04, p46	This upgrade is strong enough to be called version 7.
Apple Final Cut Express HD	\$299.00	Jul/05, p32	This low-cost editor adds HDV support, Soundtrack, and LiveType.
Vidbox Grid2	\$75.00	Feb/05, p39	Join the VJ ranks with this MIDI-capable video-mixing software.

## HARDWARE

### ACCESSORIES

Apple AirPort Express	\$129.00	Oct/04, p48	This portable wireless router will stream your iTunes music.
Better Energy Systems Solio	\$99.95	Jul/05, p45	Use the sun to power your iPod with this gorgeous gadget.
Canary Wireless HS10	\$59.95	Apr/05, p44	This device finds hotspots and reports on network status.
palmOne Treo 650	\$699.00	May/05, p44	It's the best PDA-and-cell-phone combination on the market.

### AUDIO & VIDEO

Canon Optura Xi	\$999.00	Aug/04, p38	High-end features distinguish this mid-priced camcorder.
Native Instruments Guitar Rig	\$499.00	Nov/04, p40	Killer software plus a sturdy stomp box will wow any guitarist.
Sonos Digital Music System	\$1,199.00	Jun/05, p36	Pricey, yes—but it's the best music streamer you can buy.
Tivoli Audio iPal	\$129.99	Nov/04, p50	You won't believe the sound of this compact radio and speaker.

### DIGITAL CAMERAS

Canon PowerShot A85	\$299.99	Mar/05, p40	This 4-megapixel point-and-shoot beauty takes great pictures.
Nikon D70 Digital SLR	\$1,299.00	Jul/04, p50	It's as close to perfect as any digital SLR camera we've seen.

### PRINTERS

Canon i560	\$89.99	Sep/04, p28	Ninety bucks can buy an exceptionally capable photo printer.
Canon i860	\$119.99	Sep/04, p29	This printer's Photo Black cartridge makes color photos pop.
Canon i900D	\$199.99	Sep/04, p31	Gorgeous prints, CD printing, color-LCD editing—all good stuff.

### SCANNERS

Epson Perfection 2580	\$149.00	Oct/04, p37	This flatbed handles both reflective and film scans with ease.
Epson Perfection 4180	\$199.00	Oct/04, p39	Superior image quality earns this scanner our recommendation.
Microtek ScanMaker i320	\$119.00	Oct/04, p35	Killer photo-rescue software comes with this affordable unit.

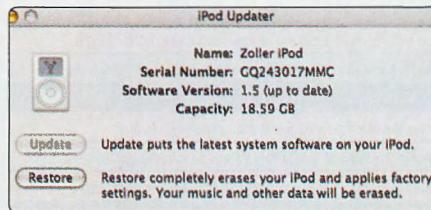
### STORAGE

ILY SlimDVDup	\$699.00	Apr/05, p45	Quickly duplicate CDs and DVDs without tying up your Mac.
LaCie Big Disk Extreme 500GB	\$399.00	Aug/04, p55	Cutting-edge technology provides cutting-edge performance.
LaCie d2 DVD±RW Double Layer	\$189.00	Feb/05, p48	Cram 8.5GB of data onto DVDs with this speedy burner.
Sony DRX-710UL-T	\$229.95	Jun/05, p46	This double-layer burner has scorching single-layer performance.
WiebeTech G5Jam 1TB	\$1,249.95	Aug/04, p59	This internal 4-drive RAID makes a Power Mac G5 scream.
WiebeTech TrayDock	\$169.95	May/05, p49	This slick hard-drive enclosure provides the ultimate in flexibility.

# ask us

## REFORMAT IPOD

My iPod is getting finicky in its old age; it now stutters and hangs on certain songs. Can I use Disk Utility to safely reformat my beloved music player?



### Use the right tool for the job.

Yeah, you can reformat your 'Pod using Disk Utility (/Applications/Utilities), but that should be a last resort. First, try the iPod Updater utility, which you might already have if you've upgraded Mac OS X recently. Look in /Applications/Utilities/iPod Software Updater for the most recent iPod Updater, or download it for free from [www.apple.com/ipod/download](http://www.apple.com/ipod/download). (As of press time, iPod Updater 2005-03-23 was the latest version.) Just plug your iPod into the Mac, double-click the iPod Updater, and the

utility will figure out what model iPod you have and offer the appropriate software. Try the Update button first, which simply updates your iPod's software to the latest version. If updating doesn't stop the stutters, try the Restore button, which resets the iPod to a factory-fresh state—it also completely erases your 'Pod, so you'll need to reload all your music. If that fails, reformat your iPod with Disk Utility, Restore using iPod Updater—and cross your fingers.

## ONSCREEN KEYBOARD

How can I navigate and type using just my mouse in Mac OS X?

This function is usually referred to as an onscreen keyboard and is tremendously important for users who would benefit from assistive technologies. Mac OS 10.3 or later supports this function, but you have to turn it on first. Open System Preferences > International and click the Input Menu tab. Check the box labeled Keyboard Viewer near the top of the scrolling list; also click the box labeled Show Input Menu In Menu Bar at the bottom of the window. Now, from the Input Menu (the little flag in your menu



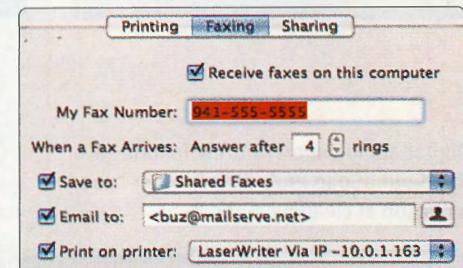
Enabling the Keyboard Viewer gives you a functional onscreen keyboard.

bar), choose Show Keyboard Viewer to bring up a small onscreen keyboard that you can use just like a real keyboard—only you click keys with your mouse.

## FAX ME THIS

How can I use my new iMac to send faxes?

Mac OS 10.3 (Panther) and 10.4 (Tiger) both have built-in faxing capabilities; no extra software is required. All you need is an active phone line connected to your internal modem. If you're a dial-up



Fax from your Mac, Jack.

user, disconnect from your ISP to free up the modem; cable modem and DSL users can just plug their phone cord into their modem. Next, head to System Preferences > Print & Fax. Click the Faxing tab, enter your information (and set up your Mac to receive faxes, if you like), and close preferences. To fax in Panther, choose Print from an application's File menu, and then click the Fax button; in Tiger, choose Print, then select Fax PDF from the PDF drop-down menu. Enter your recipient's information (marvel as contact information from Address Book auto-completes for you), and click the Fax button when you're finished. Nice.

# quick answers

## SIDEBAR SHUFFLE

I accidentally dragged my iPod shuffle's icon out of the Sidebar, and it vanished with a poof—how do I get it back? The answer is pure Mac: Simply drag the icon from the desktop into any Finder window's Sidebar. There it shall stay until

it is ejected, at which point it will show up again when plugged back in.

## STARTUP VOLUME

Can I turn down that startup bong sound? Short of remembering to turn down your system sound before shutting down your Mac, you can't alter its startup sound without resorting to third-party utilities such as StartupSound.prefPane (free, on the Disc or download from <http://www.5e.biglobe.ne.jp/~arcana/StartupSound/index.en.html>).



## SPOTLIGHT FOLDERS

Using Spotlight in Mac OS 10.4, how can I make the item's enclosing folder open instead of the item itself?

Instead of clicking on an item in Spotlight's search results to open it, hold down the Command key while clicking, and the item's enclosing folder will open.

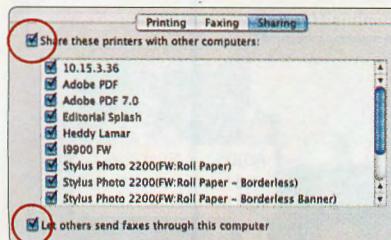
## TYPING IS FOR LOSERS

How can I enter a file's path into the Terminal without all that stupid typing? In any version of Mac OS X, you can simply drag a folder or file icon into a

## SHARING LESSON

I know I can share my printer, but what about my scanner (or any other devices connected to my Mac)?

Mac OS X is built for sharing, and the list of sharables keeps getting longer and longer. You mentioned sharing printers,



Tiger's Print & Fax preferences offer yet more ways to share.

which is extremely useful and easy to set up—just open System Preferences > Sharing and click the Printer Sharing check box. In Panther, go to System Preferences > Print & Fax > Printing, and click the check box labeled Share My Printers With Other Computers. To share only specific printers in Tiger, go to System Preferences > Print & Fax, click the Sharing tab, and choose your printers; you can also share your modem and phone line for faxing here. And don't forget you can share your DSL or cable modem via System Preferences > Sharing > Internet. But wait, there's more! Your scanner is also sharable via the Image Capture application (/Applications). Just launch Image Capture, select Image Capture > Preferences, and check the Sharing tab. And lo, you can even share your digital camera over the Internet—see how on page 62.

Terminal window—the Terminal fills in the directory path for you. As of Mac OS 10.4, you can also highlight an icon in the Finder, copy it (Command-C), and then paste it (Command-V) into the Terminal to enter the file's full path.

## MASTER THE DASHBOARD

Is there a keyboard shortcut to access the Dashboard Bar?

With Dashboard active, press Command-equal sign (=) to toggle the Dashboard bar in and out. Bonus: Hold down the Option key, then float your mouse over any widget to activate that widget's close button.

# UNIX UNIVERSITY

## SPOTLIGHT ON: METADATA

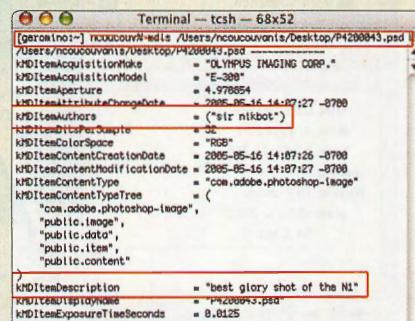
Can I access Tiger's Spotlight search feature via the command line?

Spotlight works by searching a constantly updated index file—not merely an index of file names, mind you, but a full-content index of your files' contents and metadata (hidden information in the file—data about your data). Spotlight lives in Tiger's Finder, represented by the little blue magnifying-glass icon in the upper right-hand side of the menu bar—but it's also available via the Terminal's mdfind command. To use mdfind to, say, search Spotlight's index for any files containing the word *MacAddict* in them, launch the Terminal (/Applications /Utilities), type **mdfind macaddict** (it's not case sensitive), and press Return; command-line Spotlight is just as fast as the desktop version.

Bonus: Once you find your files and want to know the exact contents of their metadata, invoke the mdls

command (for example, **mdls macaddict**) for a full listing of the file's metadata.

Double bonus: If you ever want to do something crazy like examine your metadata or erase the existing index so Spotlight creates a brand-new one, bust a cap with the mdutil command. To learn how, type **man mdutil** in a Terminal window, and press Return.

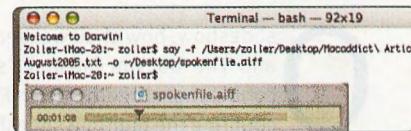


Metadata says a lot about a file.

## TALK TO ME, MAC

How can I create a spoken audio file that I can listen to on my iPod from some text documents I have?

To give Mac OS 10.3 or later a voice, open System Preferences > Speech and select the Spoken User Interface tab in Panther or the Text To Speech tab in Tiger, then check the box labeled Speak Selected Text When Key Is Pressed, and click the accompanying button to set the triggering key combination. Now



This command makes a text file audible.

whatever app you're working in, simply click and drag to select a block of text and press your key combination to hear it. For the real magic, open the Terminal (/Applications/Utilities) and type **say -f**, then type a space and drag the text file you wish to have spoken from the Finder into the Terminal window. Then, without pressing Return, type **-o ~/Desktop/spokenfile.aiff**. Press Return, and your Mac will save the spoken text to an audio file on the desktop named *spokenfile.aiff*.

 Buz is a graphic designer living in Florida. He has been a devoted Mac user for over 10 years and has worked for both Apple and Power Computing.

## MISSING MOUSE

Why can't I use my wireless mouse until the Mac completely starts up?

Unlike a regular corded mouse, your wireless mouse relies on driver software. Before it loads, your Mac and mouse can't communicate.

## GIGACURSOR

Can I make my arrow cursor bigger?

Tiger users can; open the Universal Access System Preference and click the Mouse tab. Slide the Cursor Size slider to make your cursor freakin' huge! This enhances all cursors, not just the arrow.

**Submit** technical questions or helpful tips directly via email ([askus@macaddict.com](mailto:askus@macaddict.com)) or c/o **MacAddict**, 150 North Hill Dr., Ste. 40, Brisbane, CA 94005.

# Build Better Slideshows

by Russ Hunter

EASY



iPhoto's slideshow controls seem contradictory—or at least redundant—until you figure out how to finesse them.

**KEN BURNS EFFECT** KB is in effect for every slide by default, despite the vacant checkbox.

**O** slideshow, how shall we create thee? Let us count the ways. In the age of Tiger and iLife '05, you can make slideshows in apps such as Mail and Preview; you can cobble them together from Finder or Spotlight collections; and that's not even counting the multiple slideshow options in iPhoto, iMovie, and iDVD. Choice is a good thing, but choosing the best way to build a slideshow can be a daunting task. Fear not! We've experimented with all the options; here's how to make the right decision every time you load your virtual carousel.

## WHAT YOU NEED

iLife '05 (\$79, [www.apple.com](http://www.apple.com))

iPhoto library with some pictures

iTunes library with some music

## 1 The Basic iPhoto Slideshow

Creating an iPhoto slideshow is simple: Select some pictures in your iPhoto library and click the New Slideshow button at the bottom of the iPhoto window. Your new slideshow takes over iPhoto's interface and appears in the Source list at the left, ready for you to type in a fitting name. By default, iPhoto uses the timestamps from your camera to sequence your images, but you can reorder them by dragging the thumbnails in the preview pane. If you forgot a picture, just drag and drop it from your library onto your slideshow's icon in the Source list.

When you select any slideshow in the Source list, iPhoto sprouts its slideshow-specific interface, and that's where the confusion begins—should you use the Settings or Adjust buttons to change your show's settings? What about the Effect and Transition pull-downs? Here's the deal: Settings defines your default settings for the whole slideshow, so make any wholesale adjustments to slide duration and transitions here. To adjust individual slides, highlight a slide (or several) in the slideshow thumbnail preview, and click Adjust to bring up a

simple dialog for slide duration and transition—the very same transition options offered in the Transitions pull-down menu. Don't ask us why the Effect options (Black & White or Sepia) aren't in the Adjust dialog. As for the Ken Burns (auto pan and zoom) effect, it's on by default, even though the check box isn't checked; you can turn it off via the Settings dialog.

Select your slideshow fodder from the library, or use an existing album.

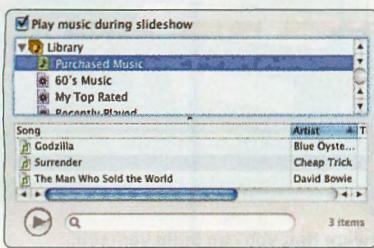


## 2 Got Music?

Adding a musical soundtrack to your slideshow also requires some futzing—but know that songs purchased from the iTunes Music Store will only play on authorized computers, so use music ripped from your CDs or your own GarageBand compositions for slideshows you plan to share. Once the songs are in your iTunes library, click the Music button at the bottom of the iPhoto window. To select a single song, click Library at the top of the list, select the song beneath that, and click OK. If you want to use two or more songs, you'll need to create the playlist in iTunes first, as iPhoto doesn't acknowledge multiple song selections. Once you've chosen the music, click iPhoto's slideshow Settings button and select Fit Slideshow To Music; iPhoto sets the slides' timing to match the music you've selected. Be careful with this setting if you're going to loop the slideshow, as it may drift out of sync with the music slightly. Adding a black slide at the end of your slideshow will help conceal any sync issues with the soundtrack. You could also select Repeat Music During Sideshow if you want to set

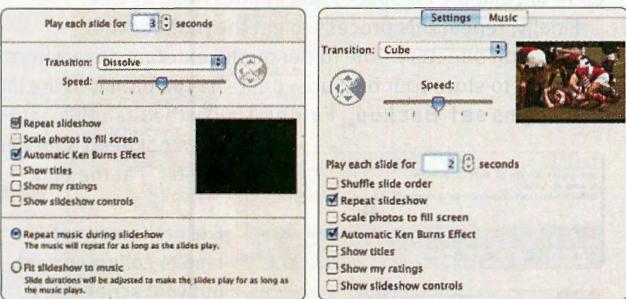
specific display times for each slide.

**Any music in your iTunes library is fair game for slideshow accompaniment—but AAC copy protection still applies.**



## 4 Customize It via QuickTime

By default, exporting slideshows to QuickTime produces a movie with a 4:3 aspect ratio and black background, but you can also use custom sizes and background images. There's yet another way to create a slideshow in iPhoto: Select some library images or an album, and click the Play button in iPhoto's bottom-left corner (underneath the Source list; not the New Slideshow button you used in step 1). This brings up the Slideshow Settings window, where you can set your default transition and slide duration, musical accompaniment, and other general settings. (For some reason, Repeat Music During Slideshow and Fit Slideshow To Music are only available via the Settings button from step 2.) Once everything's to your liking, click Save Settings, select Share > Export, click the QuickTime tab at top right, and enter a custom size. You can also change the background color or set a background image. Vacation snapshots from Scotland? Aye, give 'em a tartan background!



**The New Slideshow way (left) and the Play button way (right): Separate, but not quite equal.**

## 3 Sharing Is Caring

Once you've created your masterpiece, why not show it to the world? If you want to share your show, you have a couple of options. To view it on another Mac, export it as a QuickTime movie. Select your slideshow in iPhoto's Source list, then choose Share > Export and specify a movie size—Small (240x180), Medium (320x240), or Large (720x480)—from the list. Use Small or Medium for bandwidth-conscious Web or email delivery, or go Large if you're burning the show to a CD or DVD. If you have a SuperDrive-equipped Mac, an even better choice is Share > Send To iDVD. iPhoto will open a new project in iDVD and automatically add your slideshow. All you have to do is insert a DVD and press Burn. And if you have a non-Apple DVD burner, don't fret—iDVD now has a Save As Disc Image option under the File menu. Once you've created the image, you can burn it to your iDVD-incompatible drive with Toast or any disc-burning app (or even on another Mac). But if you want your slideshow to play nice on the family boob tube, see step 5 to see how to use iDVD to maximize your slideshow's compatibility.



**Sharing slideshows could probably be simpler, but not by much.**

## 5 iDVD Way or the Highway

Using iPhoto's Share > Send To iDVD can result in some cropping when the DVD is viewed on a standard-definition (not HD) TV. This is because 720-by-480-pixel video loses almost 20 percent of the image to overscan. The solution: Create your slideshow in iDVD to fit your photos to television's so-called "safe area," ensuring that every pixel makes it to the big screen. Open a new iDVD project, and click the Customize button to open the media drawer. Select a theme, and click the Slideshow button at the bottom. A My Slideshow entry will be added to the DVD menu. Click the text label once to rename the slideshow, then double-click to edit the slideshow's contents. Now click the Media button in the drawer and select Photos from the pop-up menu. Drag the images or albums you want into the slideshow window. Switch the pop-up menu from Photos to Audio to add a song or playlist. With a DVD's generous 4.7GB



of space, you can put several slideshows on a single disc, or even accompany your pictures with "In-A-Gadda-Da-Vida," baby—the long version!

**Surprise! iDVD sports most of iPhoto's slideshow controls.**

Russ Hunter is glad to do his part in the fight against boring slideshows.

# Automate Your Backups



by Johnathon Williams

## WHAT YOU NEED

Mac OS 10.2 or later

Additional hard drive (internal or external  
FireWire or USB model)

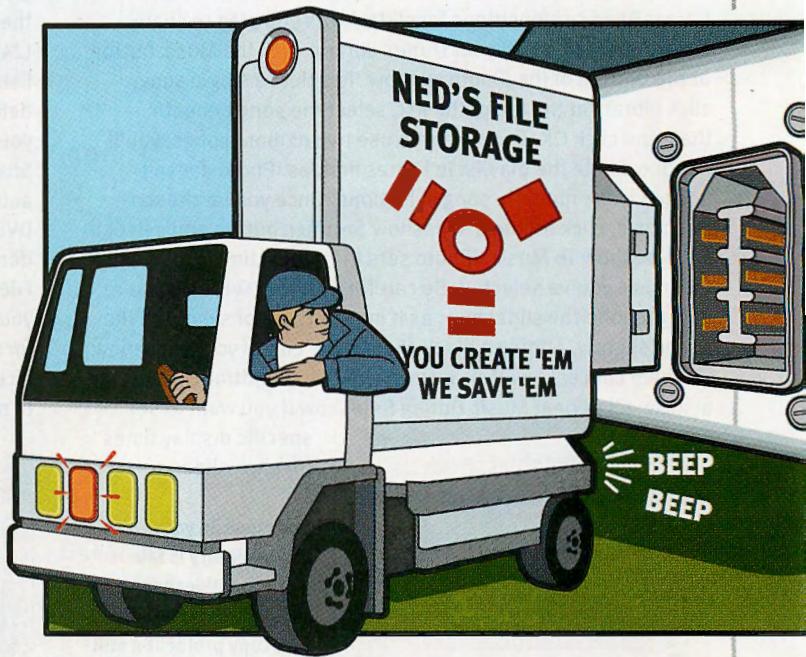
CD or DVD burner

**C**onfucius say, there are two types of computer users: those who have suffered a catastrophic hard-drive failure, and those who will. Commercial backup utilities abound, but we do-it-yourselfers prefer rolling our own. Here, we show you how to automate your backups using AppleScript—with a little help from the Terminal. Our first script will back up your files to an external drive any time that drive mounts on your Mac—all you need to do is plug it in. And if you

don't have rigorous backup needs (or a spare hard drive), Plan B creates a disc image of your chosen backup folder and then prompts you to insert a blank disc for burning.



BackupExternal.scpt,  
BackupFolder2CD.scpt



Don't pay big bux for backup software that you can build yourself.

## 1 Where to, Mac?

To get started, grab the `BackupExternal.scpt` file from this month's Disc and copy it to `/Library/Scripts/Folder Action Scripts`. Note that this is in your root Library folder, not the Library folder in your Home (`/user name`) directory. Double-click the file to open it in Script Editor.

Before our script will work on your system, it needs some information—firstly, the name of your external drive. Find the line that begins `-- Yo Mac Addicts!!!!`. The two hyphens at the start of this line indicate that it's a comment; the Mac ignores comments, but you shouldn't—they're handy for signposting your code. The first line of code below this—the one that begins `set External_Drive`—is what you want. Change the text between the quotation marks to the name of your backup drive. AppleScript is case sensitive, so mind your typing, and know that any spaces in the volume names or paths will stymie this script—use interCaps or under\_scores if you must (both in the script and as your drive name).

```
-- MacAddict's Ultimate Backup Script
-- THIS SETS UP THE FOLDER ACTION
on adding folder items to this_folder after receiving these_items

-- YO MAC ADDICTS!!!!
-- SET UP YOUR INFO HERE!!!!
set External_Drive to "Name of Your Drive"
set Stuff_To_Backup to "/path/to/your/stuff"
set Backup_Folder to "/path/to/backup/folder/on/external/drive"
-- YO MAC ADDICTS!!!!
-- STOP MESSING WITH OUR SCRIPT!!!!!!
```

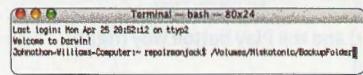
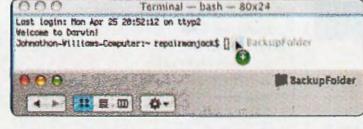
A rose by any other name would not smell as sweet. Name your drive correctly, or your script will be as dead as Juliet.

## 2 Find Your Paths

Our script uses the command-line utility `rsync` to perform even large backups in the background without affecting performance too much. What's more, `rsync` only backs up files that have changed since your last backup. (For more info, type `man rsync` at the Terminal prompt.)

For now, `rsync` only needs a couple of directory paths to follow: one to your source folder of stuff to back up, and one to the destination folder on the external hard drive. If you don't know these paths, here's the easy way to find out: Open the Terminal (`/Applications/Utilities`) and drag your source backup folder's icon from the Finder into the Terminal window. The Terminal will display the full Unix path to the folder; select and copy that. Now, go to the script, find the line that begins `set Stuff_To_Backup`, and paste the path between the quotation marks in that line. Be sure to add a final forward slash (/) to the end—oh, and the no-spaces rule applies here, as well.

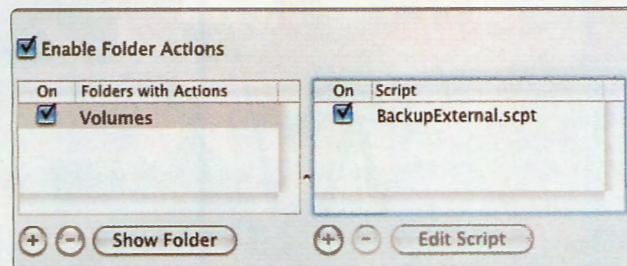
Finally, repeat this process to get the path for your destination directory—the folder on the external drive where you want to store your backups; paste its file path into the line that begins `set Backup_Folder`. Unlike the first, this path does not need a forward slash (/) at the end.



File paths may not lead to enlightenment, but your script won't be going anywhere without them.

## 3 Get Friendly with Folder Actions

Next, you need to make sure your system and Folder Actions are friends. A Folder Action is a type of AppleScript that you attach to a specific folder, with instructions to spring into action when the folder's contents change in a prescribed manner—in this case, when the folder appears because you plugged in the external drive that the folder lives on. Go to /Applications/AppleScript, and launch the Folder Actions Setup utility. At the top of the window, check the box next to Enable Folder Actions, then quit the utility. While this utility lets you attach your script to most folders on your main hard drive, you'll have to jump through one extra hoop because your target folder lives on an external drive.



Folder actions can save you a lot of work, but they can't do anything until you enable them.

## 5 Stick it on a Disc, Instead

Backing up to an external drive is great, but there are times when you need something more portable—like a CD or DVD. Backing up to disc the old-fashioned way is kind of a pain; even with Mac OS 10.4's new Burn Folders, you have to create a new Burn Folder, figure out which files you want to back up, drag them in, and press the Burn button. Our script condenses this process into two quick steps: Click the script, and click a folder.

First go to /Applications/AppleScript and launch Install Script Menu (OS 10.4 users need to launch the AppleScript Utility, and check the check box labeled Show Script Menu In Menu Bar). This adds a drop-

**The Script Menu puts tons of prescribed automation at your fingertips.**

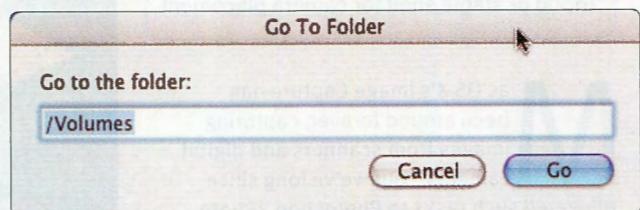


## GIVE BACKUP THE BOOT

Certain backup-utility mongers would have you believe that bootable backups—backups so thorough that you can simply recruit your backup drive as a new boot drive when the original fails—are essential. Well, maybe so, and maybe

## 4 Find the Folders

Because you want to trigger your script when a certain volume (your external drive) mounts, you need to attach the script to the Finder's hidden Volumes folder. Any time you connect a hard drive to your Mac, OS X references it via the invisible Volumes folder. To get there from the Finder, click the Column View icon to put your window into Column View; then select Go > Go To Folder, or press Command-Shift-G, type /Volumes in the Go To The Folder field, and press Enter. Control-click the Volumes-folder icon, and select Attach Folder Action from the pop-up menu. Then, find your BackupExternal.scpt script in the Choose A File dialog, and click Choose. Now, the next time you attach the external drive, the script will activate and ask you for permission to do the backup; once you give the OK, a Terminal window will launch and back up your files.



The folder you need is hidden by default, but it's nothing that a little Finder Fu can't handle.

down AppleScript menu to the Finder's top menu bar. Apple courteously provides a whole mess of scripts for you to play with, but you want to add one of your own.

Click the script icon in your menu bar and select Open Scripts Folder—this will create a Scripts folder in `/user name/Library` if there isn't one already. Now, copy the `BackupFolder2CD.scpt` file from this month's Disc to your new `/user name/Library/Scripts` folder. To use this script, simply select it from the drop-down menu. (After all that configuring, we thought you deserved a freebie.) At the file dialog, select a folder to burn, and click Choose. Then, sit back while your Mac does all the work. The Terminal window will prompt you to insert a blank disc when it's ready to burn. The drive on tray-loading systems should pop open automatically. So feed it, Seymour!

Sectors processed: 2042, 2025 compressed  
Speed: 2.9Mbytes/sec  
Savings: 98.7%  
Finishing...  
created: /Users/repairmanjack/Desktop/images.dmg  
Please insert a disc:

**AppleScript plus Terminal equals never having to think about backups again.**

not—but if you're in the maybe-so camp, here's how to make one: Simply set your entire startup disk as the backup-source folder; you'll want to use a removable drive of equal or greater capacity, but you could have figured that out.



Johnathon Williams lusts after the august title of *MacAddict* Contributing Editor, which, he's been told, entitles the bearer to a really sweet monogrammed keychain.

# Arm Your Mac with a Remote Security Cam

EASY

by Niko Coucouvanis

**WHAT YOU NEED**

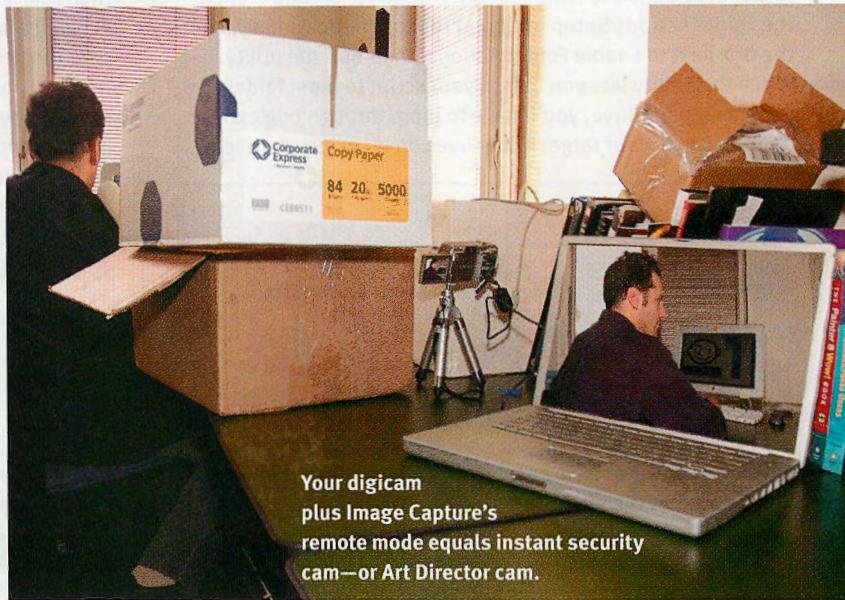
Mac OS 10.3 or later

Image Capture-supported camera (we used a Canon PowerShot S410 and Nikon D1X)

AC-power supply or loads of batteries

Tripod or stable shelf for camera placement

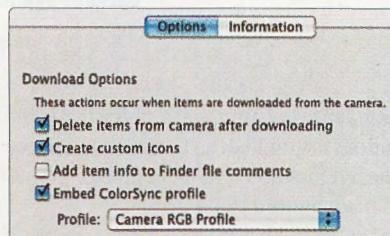
Mac OS X's Image Capture has been around forever, capturing images from scanners and digital cameras—but we've long since relegated such tasks to Photoshop, iPhoto, and the good old Finder. Image Capture has few more tricks hidden up its sleeve, however, such as camera sharing and remote-camera control—capabilities that you can use to create a babysitter that won't raid your liquor cabinet.



## 1 The Setup

First off, a warning: Apple's documentation as to which digital cameras are capable of being controlled remotely by Image Capture is spotty, at best. But after considerable Web spelunking, we found anecdotal evidence that the following cameras should work: Canon PowerShot models A60, A70, S400, S50, and G5; Kodak DC280, DC4800, and DC5000; and Nikon D1, D1X, and D1H. We were successful with our Canon PowerShot S410, so we'll focus on that camera—just know that your camera's setup details may vary. We found that the PowerShot preferred to be in regular still-shot mode with its second mode switch set to playback. Adjust your camera's settings before connecting it to your Mac—most cameras will ignore menu manipulation and dial fiddling while connected. Also, disable your camera's sleep mode or set its time-until-sleep as high as you can; you don't want your camera nodding out on you while you're setting it up. An AC-power supply for

the camera is key in remote situations where you can't slide in new batteries every day or three. Use your camera's USB cord to attach your camera to your Mac; if Image Capture doesn't launch automatically, double-click its icon (/Applications).



**Don't sweat these Image Capture settings—they don't apply to shared cameras.**

## 2 Share and Share Alike

With your camera connected and Image Capture running, Image Capture's device window should appear automatically—if it doesn't, select Devices > *your camera's name* (your connected camera's name will appear in the Devices menu). Feel free to change the Download To location or other Image Capture options—most of them don't affect remote operation, anyway. All you really need to do in Image Capture is open Image Capture > Preferences, click the Sharing tab, then click the Share My Devices box, which activates the choices in the lower portion of the window. Click the box next to the camera(s) you wish to share, and click the Enable Web Sharing check box. Enter a descriptive name in the Shared Name field if you wish, and click OK. Now fire up Safari on the Mac that the camera's connected to so you can troubleshoot the basic setup without running back and forth between two Macs.

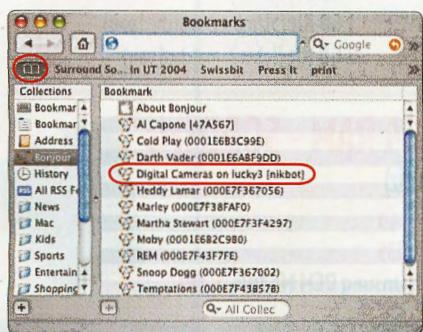


Unfortunately, you have to re-enable camera sharing every time you remove and reattach the camera.

## 3 Connect via Safari

Since we checked the Enable Web Sharing box, other users on our local subnet can connect directly in Safari via Bonjour (aka Rendezvous in OS 10.3 and earlier). Launch Safari (/Applications) and click the Bookmarks icon in the upper left. Now click Bonjour (or Rendezvous) in the Collections pane and browse the Bookmark pane for your shared camera—note that it doesn't appear by the name you gave it in step 2, but rather as Digital Cameras On *name of mac*. Double-click the listing to load up Image Capture's remote Web interface.

Now for the bad news: Precious few cameras support the on-demand security-camera functions. If yours doesn't, the



Remote Monitor tab will be grayed out. You can still have some remote fun with Image Capture, however—just skip ahead to step 6.

Connecting to your remote camera couldn't be easier.

## 5 Save a Snap (or Nine) in Time

Remote Monitor's time-lapse action is cool, but we want snapshots we can keep. Click the camera Web page's Image Browser tab for a thumbnail gallery of any photos currently stored on the remote camera's memory card. No photos? Click the Take Picture button; after a moment, the Image Browser page will reload with a thumbnail of your shot. Unlike the Remote Monitor shots, these files go directly to your camera's memory card and stay there until you remove them—which you can also do remotely with the Delete button—but you might want to press the Download button first to stash a copy on your Mac.



Our semi-supported DiMAGE Xt doesn't offer Remote Monitor or image snapping, but we can select and download its photos remotely.

## 7 Connect Directly to Image Capture

If your camera doesn't support the Remote Monitor function, or you just want to share the photos on your media card rather than share the whole camera, you can bypass the Web browser and share directly via Image Capture. Fire up Image Capture (/Applications). If you're using Mac OS 10.3.8 or earlier, select Image Capture > Preferences, and check the box labeled Look For Shared Devices. Now select Devices > Browse Devices (Browse Shared Devices in OS 10.3.8 or earlier). Find your camera in the Image Capture Devices window and check its box (in OS 10.3.8 or earlier), or highlight it and click the Connect button. Now Image Capture treats the remote camera as if it were

## 4 Monitor from a Remote Mac

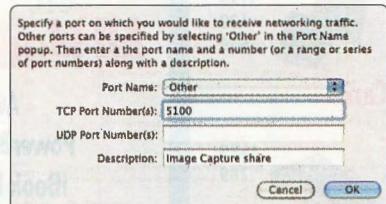
If you have the right camera (remember, documentation is scarce and incomplete), the camera Web page's Remote Monitor tab will be functional (that is, not grayed out). Click on the Remote Monitor tab, and Image Capture will automatically trigger your tethered camera to start firing shots at the default rate of 60 per hour. It's not quite a live video feed, but the camera Web page automatically refreshes itself to display the latest shot, and you can click the window's light switch to adjust the number of shots per hour; just enter a number and click Set. And don't worry about your camera's media card filling up, because the camera doesn't store these pics; it delivers them directly to the camera's Web page (which doesn't store them either). If you want to snap a shot you can keep for posterity (or blackmail), proceed to step 5.



Hit the light switch to adjust your photo-frequency preference.

## 6 Get More Remote—Way More

To access your Mac cam from anywhere on the Internet, first note your Mac's IP address (find it in System Preferences > Network > Network Status). If your camera-hosting Mac has a static IP address, you can access your camera Web page over the Internet by entering that Mac's IP address, followed by :5100, into a Web browser's address bar (210.56.57.3:5100, for example). If you're behind a firewall, you'll have to open port 5100 to enable this in System Preferences > Sharing. Click the Firewall tab, click New, and select Other from the Port Name pull-down menu. Then



type 5100 in the TCP field and supply a descriptive name. If you're using a router to share a single IP address, you'll have to negotiate the hardware's port forwarding and address translation.

Set up your Mac properly, and you can watch the action from the office.

attached directly to your Mac, offering all of the usual courses of action: download photos, delete them, or perform one of the standard on-Mac options (including building a Web page or slide show, cropping to several popular sizes, or navigating to a saved AppleScript or Automator Workflow). You can't delete images from a remote camera via Image Capture, though you can delete (and password-protect) your images using the Web-sharing method.



Image Capture treats the remote cam as if it were plugged right into your Mac.

# Insanely Great Deals!

## Apple® Specials!



**Power Mac G5**  
Dual 2.7 GHz 512mb/250gb  
16x SuperDrive  
Save \$150  
Plus FREE Shipping



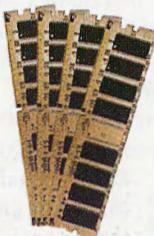
**PowerBook 15"**  
1.67 GHz 512mb/80gb/AirPort  
SuperDrive Save \$100  
Plus FREE Shipping

### AppleCare - Long Term Peace of Mind

Power Mac	\$ 197
PowerBook	266
iMac	134
iBook	197
iPod	49

**iPod Photo 60gb**  
with AppleCare, Dock,  
AV/FireWire/USB cables  
only \$479

## Lifetime Warranty Memory



**512mb ONLY \$49**

For Power Mac G5 & iMac G5

512MB Module	\$ 49
1 GB Module	96
1 GB Kit (512mb x 2-matched pair)	94
2 GB Kit (1gb x 2-matched pair)	189

## Drives & Upgrades

### iBook/PowerBook SuperDrive Upgrades

Bare Drives only - no software included

Tray Loading 8x SuperDrive (DVD-R/RW, CD-R/RW) \$ 124  
Slot Loading 8x SuperDrive (DVD-R/RW, CD-R/RW) 144



### Internal Hard Drives

400gb	Serial ATA	7200rpm	8mb cache	\$ 289
250gb	Serial ATA	7200rpm	8mb cache	145
250gb	ATA/133	7200rpm	8mb cache	145
160gb	ATA/133	7200rpm	8mb cache	104
60gb	NoteBook	5400rpm	2.5" / 9.5mm	108
80gb	NoteBook	5400rpm	2.5" / 9.5mm	144

### Pioneer Internal Super Drives

Dual Layer DVR-109 \$ 75  
DVD+R/RW, +R DL up to 16x, CD-R/RW up to 40x  
Single Layer DVR-106 \$ 75



### Sonnet Encore / ST G4 Upgrades

G4 1GHz 2mb	\$190
G4 1.7GHz 2mb	429
G4 Duet Dual 1.3GHz 2mb	669



### ATi MacEdition Video Cards

For Power Mac G5	
- x800 GS Dual DVI 256mb	
- 9800 ProSpecial Edition 256mb	289
For AGP Power Mac G4	
- 9800 Pro 128mb	\$ 249
- 9000 Pro 128mb	129
For Open PCI Slot Power Mac G3/G4/G5	
- 9200 PCI Pro 128mb	\$125



Insanely Great since 1994

## Apple Laptop Batteries

### Feeling Run Down?



New, Genuine Apple Replacement Batteries

**All Models only \$99**

Available for:

PowerBook G4 Titanium  
iBook 12" White/Snow  
iBook Clamshell models  
iBook G3/G4 61 or 66 watt

## AirPort Cards



**Go Wireless!**



AirPort Extreme Card	\$ 78
AirPort Original Card	78
AirPort Card Adapter Cradle	39



Apple Authorized Reseller Apple Authorized Service Provider Apple Specialist

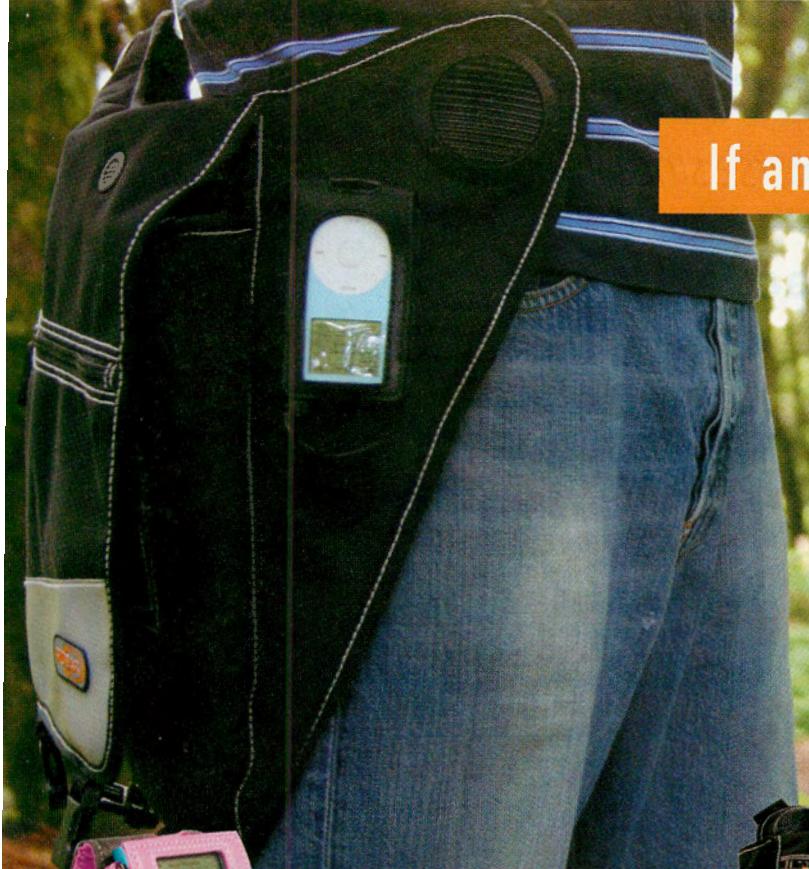
**www.macsolutions.com**  
**800•873•3726**

MacSolutions, Inc. 11933 Wilshire Boulevard, West Los Angeles, CA 90025 Fax: (310) 966-4433

University & School P.O.'s Welcome Note: All prices are subject to change. Limited to stock on hand. #527

\*Web prices listed. Limited to stock on hand. Call or check website for details on new computer purchases. Not responsible for typographic errors. Not valid in combination with any other offers or promotions.

All Apple products are only available for sale in-store or to previous MacSolutions customers due to our agreement with Apple Computer, Inc.



If an iPod plays in the forest...

...make sure someone hears it



### PRIE Sheepskin

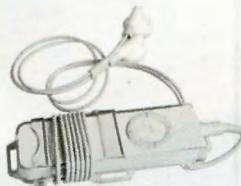
Yes, Mary had a little lamb. But now she has an iPod with this case. Mmmm, mutton stew.

**TUNEWEAR®**



### MUSAK

With two built-in speakers and a battery powered amplifier, MUSAK makes it easy to share your iPod tunes and carry your laptop.



#### Buddy Clip

No more tangled earphone cords! Clip your iPod shuffle where it's never been clipped before.



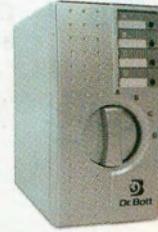
#### Mac mini Hub

Treat your Mac mini to more USB and FireWire ports with this stackable hub, saving valuable desktop space.



#### Griffin AirBase

"Help! I've fallen and I can't get up," wailed the Apple Airport Express. No worries with this desktop stand.



#### MoniSwitch DVI SL

"Four computers and only one DVI display!" cried the beleaguered Webmaster. Enter MoniSwitch. Four Macs or PCs, mix and match.



#### OS X Keyboard & Mouse

No need to remember the %?ç?© key combinations with this keyboard. And right-click envy be gone with the 2-button scroll mouse.

 **Bruddy**

 **BELKIN**

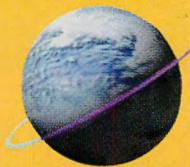
 **GRIFFIN**

 **Dr. Bott**

 **matias**  
corporation

**Dr. Bott** LLC

Buy Dr. Bott products at your friendly neighborhood Mac store.  
Find one online at <http://www.drbott.com/local> phone: 800.541.1230



# Other World Computing

Serving the Mac Universe since 1988.

Excellent service

Competitive prices

Quality products

Expert tech staff

## More Memory = Faster Mac

Did you know that memory makes the difference? For today's applications and OSX, increasing your memory to 768MB or greater can more than DOUBLE the performance of your Apple! See fewer 'spinning beach balls' and notice how much faster your Apple is with the right memory! Speak to one of our knowledgeable OWC reps by phone or use our online memory guide at [macsales.com/memory](http://macsales.com/memory)

### PowerMac G5 & iMac G5

All Models up to Dual G5 2.5GHz 184 Pin

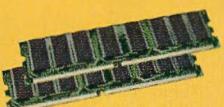
DDR DIMM Upgrades

512MB Module **\$49.00**

1GB Module **\$115.00**

1GB Kits **\$99.00**

2GB Kits **\$219.00**



### PowerBook G4 Aluminum & iBook G4 (all models)

All Models up to 1.67GHz

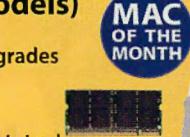
200 Pin DDR SO-DIMM Upgrades

512MB from **\$49.95**

1GB from **\$129.99**

1GB Samsung Factory Original

OEM Module **\$179.00**



### All PowerMac G4, eMac G4, & iMac G3/G4 Models

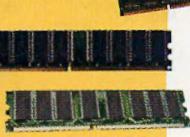
SDRAM or DDR Memory

Module Upgrades

256MB from **\$25.00**

512MB from **\$49.00**

1GB from **\$99.00**



### PowerMac G3 Memory

For All PowerMac G3 Models

256MB Module

only **\$25.99**

Max up to

768MB/1GB!



## MAC OF THE MONTH

Check out our Mac of the Month at [macsales.com/motm](http://macsales.com/motm)



We have  
Memory for  
Nearly EVERY  
Apple Model!

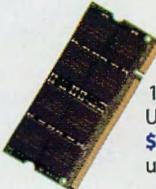
Get the right memory every time by speaking to a friendly OWC Rep at 800-275-4576 or with our memory guide at [macsales.com/memory](http://macsales.com/memory)

MA\_08-05

Other World Computing



PowerBook  
cases starting as  
low as **\$29.99**  
Model Shown **\$154.99**



1GB Memory  
Upgrade from  
**\$129.99**  
up to 2GB



Protect your  
G4's screen  
from keyboard/  
trackpad marks!  
from **\$14.95**



FREE SAMPLE of iKlear  
Apple Polish  
with each LSP Purchase



Upgrade to an 8X  
SuperDrive DVD & CD  
Burner with Dual Layer  
Support **\$169.95** complete  
with bonus bundle of  
software & media  
including Dantz/EMC  
Retrospect Backup



For PowerBook G4 12/15/17" Aluminum models

Your Online Mac Upgrade Center

## OWC FireWire & USB

High Performance plug & play

NEW-Now Available!

OWC Mercury Elite-AL Pro

FireWire Solutions

FW400/800 and

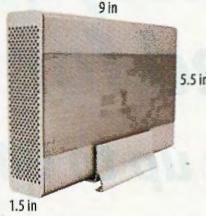
USB2 Combo

Solutions

120GB to 400GB

7200RPM 8MB

Buffer from \$129.99



NEW-Now Available!

OWC Mercury Elite DUAL

FireWire 800 RAID Solution

Plug & Play Fire-

Wire Dual Drive



Hardware RAID

320GB RAID \$329.99

500GB RAID \$439.99

800GB RAID \$749.99

OWC Mercury On-The-Go

2.5" Portable

FireWire and FireWire+USB2

Combo Solutions

'Fits in your Shirt Pocket,  
Weighs less than 12 ounces!'

40GB to 100GB in the

palm of your hand

from \$129.97

Most Popular:

80GB 5400RPM

for \$199.97

100GB 5400RPM

for \$289.97

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7200RPM

for \$439.99

800GB 7200RPM

for \$749.99

40GB 5400RPM

for \$199.97

500GB 7

## Laptop Accessories

**newer technology**  
**NuPower** Batteries

PowerBook G4 Titanium 15" 4800mAh NuPower **\$149.95**  
For all 400-1GHz Models, up to 42% MORE Capacity vs. Original Battery!

NuPower with up to 50% more Capacity also available from \$119.99 for PowerBook G4 Aluminum 12/15/17" Models, PowerBook G3 Wallstreet/Lombard/Pismo, All iBook G3 and iBook G4 Models.

Call or Visit [macsales.com/NewerTech](http://macsales.com/NewerTech)

Protect your screen!

There's an OWC Laptop Screen Protector (LSP) product for your Mac.

PowerBook G4 17" **\$17.99**  
PowerBook G4 15" **\$17.95**  
PowerBook G3 15" **\$14.99**  
iBook/PowerBook G4 12" **\$13.95**

The OWC LSPs are precision cut, glove soft leather protectors that prevent potentially permanent marks which can occur from the trackpad and keyboard while your laptop is closed.



FREE SAMPLE of Klear Screen display cleaner with each LSP Purchase



## ATI MacEdition Video Cards

For Power Mac G5 models:

x800 G5 Dual DVI with 256MB **\$495.99**  
9800 Pro Mac Special Edition 256MB **\$292.99**

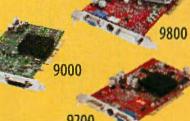


For AGP Equipped PowerMac G4s:

9800 Pro 128MB **\$243.99**  
9000 Pro 128MB **\$127.99**



G3, G4, G5 PowerMacs with open PCI Slot:  
9200 Pro 128MB **\$124.99**



## Network Adapters

**D-Link**

D-Link 10/100 Ethernet PCI Card **\$9.99**



## PRAM Batteries

Is your Mac forgetting what time it is?  
OWC PRAM batteries starting at **\$5.75**



## Wireless Mouse

Logitech Cordless 'Click' Optical Mouse for USB SPECIAL - **\*\*\$25.99\*\***



## Make your Mac mini even better!



Upgrade to 1GB only **\$99.00**  
More Memory = Much Faster!

Get a Bigger & Faster Hard Drive from **\$79.99**

More Storage that's up to 43.8% Faster!

Burn DVDs & CDs for only **\$149.95**

8X DVD Burner is twice as fast as Apple's current SuperDrive option + supports Dual Layer DVD Burning!

Call or Visit [macsales.com/macmini](http://macsales.com/macmini)



# Satisfy that Need for Speed

## Zoom up to G4/2.0GHz!

Plug n' Play makes your 'old Mac' perform like NEW again. Compatible with new and existing software, all the memory and other hardware you have too!

\*\*30 Day 100% Money Back Guarantee on all PowerLogix & OWC Brand Upgrades!\*\*

Power Up to Dual 2.0GHz from **\$179.00!**

For PowerMac G4 AGP Graphics/Sawtooth, Cube, Gigabit Ethernet, Digital Audio, and Quicksilver models.

Featured Products:

**PowerLogix**

PF55 G4@1.0GHz 2MB L3 Cache **\$179.00**

PF55 G4/1.4GHz w/2MB L3 Cache **\$329.00**

**PF47 G4@2.0GHz w/512K L2 1:1 \$399.00**

PF47 Dual G4@1.2GHz **\$439.00**

PF47 Dual G4@1.8GHz **\$679.00**

**OWC**

Mercury Extreme G4@1.4GHz 2MB L3 **\$339.00**

**Sonnet**

EncoreST G4@1.7GHz 2MB L3 **\$449.00**



Go from as slow as G3/233MHz to FAST G4/1.2GHz!

Featured Products for any PowerMac G3 Model:

**PowerLogix**

PowerForce G3/1.0GHz w/1MB L2 1:1 **\$219.00**

\*\*1.0GHz G3 is FASTER than Sonnet's G4/700 & 800!\*\*

PowerForce G3/1.2GHz w/1MB L2 1:1 **\$329.00**

ZIF G4@700MHz 1MB L3 **\$199.00**

ZIF G4@1.0GHz 1MB L3 **\$349.00**



## OWC is the #1 Source for G3/G4 Upgrades

Call or Visit [macsales.com/FASTER](http://macsales.com/FASTER) for our full that includes upgrades for nearly every Mac back to 1994

- that an upgrade is made for. Our exclusive online upgrade guide makes it easy to see all the options available just for your Mac too! Exclusive Benchmark Reporting system also lets you see how the different upgrades stack up. Finally - OWC even offers you a trade in for your old processor too.



All OWC, Sonnet, & PowerLogix

Upgrades are TESTED and GUARANTEED OS X 10.4

'Tiger' Compatible!



## Software

Get OS X 'Tiger' for **\$99.00**

full retail box version

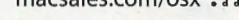
Apple OS X 'Panther' from **\$47.99**

Apple OS X 'Jaguar' from **\$17.99**



**X PostFacto**  
Run OS X on your "unsupported" Mac

[macsales.com/osx](http://macsales.com/osx)



Special!



## Utilities

ProSoft Drive

Genius **\$65.00**

Optimize, Recover, Live Repartition, Repair, S.M.A.R.T Diagnose & More!



## iPod Replacement Batteries & Enrichment Products



**iPod Replacement Batteries**  
NewerTech iPod Replacement Batteries feature up to 70% more capacity vs. original battery for runtimes even exceeding 21 hours!

**NuPower**

NuPower 600mAh Battery for all iPod mini \$29.99  
50% more capacity vs. original

NuPower 2100mAh Battery for all 1st & 2nd Gen iPods \$39.95  
70% more capacity vs. original

NuPower 850mAh Battery for all 3rd Gen iPods \$25.99  
30% more capacity vs. original

NuPower 750mAh Battery for all 4th Gen iPods \$25.99  
20% more capacity vs. original

NuPower 900mAh Battery models for all 40GB iPod 4th Gen, 40GB & 60GB iPod Photo \$34.95  
Up to 44% more capacity vs. original



Batteries are complete kits with documentation and installation tools.



**RoadTrip & RoadTrip Plus**  
Listen to your iPod while 'on-the-road'!

Finally, an easy to use and GREAT sounding FM Transmitter for your iPod! Just Plug, Tune a single station, and jam on without interruption. Easier to use and sounds better than products costing 2-4 times as much!

**RoadTrip!**

FM Transmitter for All Apple iPod Models \$14.95 Also works with any device with a headphone audio out jack.

**RoadTrip!+**

FM Transmitter + iPod Charger \$27.95 For iPod mini, 3rd Gen, 4th Gen, and Photo Models Charges and broadcasts clean and clear – all in one.

**iPod cases**

contour



Use NewerTech's instructions & included tools + OWC's online installation videos to easily install the iPod battery yourself - OR, for \$49 + the cost of the battery, OWC covers all freight and will install the battery for you! [macsales.com/iPodinstall](http://macsales.com/iPodinstall)

OWC's full line of iPod Accessories, Batteries, and more online at [macsales.com/iPod](http://macsales.com/iPod)

## Music on your Mac

**M-AUDIO**



Nova Large Capsule Cardioid Microphone \$99.00



Trigger Finger MIDI Controller Input Device \$199.00



StudioPro 4 Desktop Audio Powered Monitors \$149.00



Ozone USB Audio 8 Midi Controller Knobs \$249.00



Black Box - Guitar AMP FX & Audio Interface \$249.00

**contour**  
DESIGN

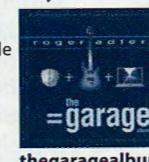
**Shuttle A/V Controllers**

Shuttle Pro v2 Jog/Shuttle (15 programmable buttons) \$84.99

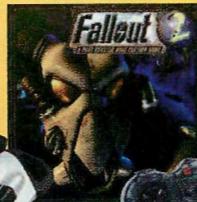
Shuttle Express Jog/Shuttle (5 programmable buttons) \$39.99

**Brian Moore Guitars™**

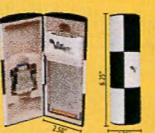
iGuitar USB/MIDI Guitar Controller Starting from only \$759.00



Featured in Roger Adler's the garage album CD along with other OWC products. [thegaragealbum.com](http://thegaragealbum.com)



Scope out our gaming gear! [macsales.com/gaming](http://macsales.com/gaming)



## The Latest Enhancements

**VillageTonic**

**VillageTonic VTBook**  
Add another CRT or Flat Panel Display to your Powerbook \$246.99



**iLugger iMac cases**  
for the iMac G5  
5 color combinations starting at \$99.95



**Rain Design i360°**  
A Turntable for your iMac G5 17" and 20" \$39.00

Eye candies for your Mac. Six flavors to choose from.

**O'Reilly Books**  
The latest Mac titles from \$9.95

Over 30 Mac Titles In Stock!



**FasterMac.net**  
Pay less. Get more. Surf faster!

Mac-Only Internet from only \$8 per month!

High-Speed Nationwide Dial-up and DSL Services 24/7 Toll Free Tech Support & More!

Visit [FasterMac.net](http://FasterMac.net) or call toll free 800-869-9152 to learn more or to sign up.



More rockin' accessories at [macsales.com/music](http://macsales.com/music)

**Other World Computing**

Serving the Mac Universe since 1988

Excellent service • Competitive prices • Quality products • Expert tech staff

visit [macsales.com](http://macsales.com) 800.275.4576

## PowerBook Repairs & Upgrades

OVERNIGHT - WORLDWIDE: 1-888-5PB-REPAIR

8x, Dual-Layer Superdrive Upgrades \$289

Includes Round-Trip Overnight Shipping  
And 24-Hour repair!

From \$49

Hard Drive Upgrades For PowerBooks And iBooks

Includes Data Transfer, Round-Trip Overnight Shipping And 24-Hour Repair!

60gb - \$229 80gb - \$239 100gb - \$279

External Firewire Enclosure For Your Old Drive + \$29



LCD Repair For PowerBooks And iBooks Starting At \$399

Includes Round-Trip Overnight Shipping And 24-Hour repair!

Stainless Steel Hinge Replacements For Titanium PowerBooks \$299

Includes Round-Trip Overnight Shipping And 24-Hour repair!



Check Out Our  
Daily Blog Specials  
At TechRestore.com  
For Even More  
Great Deals!

Have A Question  
While Shopping Online?  
A Live Support Operator  
Will Be Happy To Help!

## iPod Repairs & Upgrades

OVERNIGHT - WORLDWIDE: 1-877-For-iPod

LCDs, Data Ports, Headphone Ports, Face-plates,  
Scroll-wheels, Logic Boards, batteries and more!

1st & 2nd Gen. Headphone & Firewire Repairs \$99  
Includes Round-Trip Overnight Shipping

iPod Upgrades:

1st Gen. 5gb to 20gb \$149  
2nd Gen. 10gb to 20gb \$129  
3rd Gen. 15gb to 40gb \$189  
4th Gen. 20gb to 60gb \$249  
Includes Round-Trip Overnight Shipping

20-Hour Overnight Battery Upgrade \$79  
Includes Round-Trip Overnight Shipping

From \$10

NEW! iPod Cases  
With Pivoting Belt-Clip & Screen Protector

iPod Accessories:  
Cases, Car Adapters  
FM Transmitters,  
Chargers, Lights, and  
Original Apple iPod  
Accessories



## PowerBook And iBook Liquidation!

G4/500, 256MB, 20GB, CD/DVD Drive, 15" \$699

G4/550, 256MB, 20GB, Combo Drive, 15" \$799

G4/667, 256MB, 30GB, Combo Drive, 15" \$889

G4/867, 128MB, 40GB, Combo, Bluetooth, 12" \$899

G4/867, 128MB, 40GB, SuperDrive, Bluetooth, 12" \$949

G4/1Ghz, 512MB, 60GB, SuperDrive, 15" \$1299

G3/500, 192MB, 10GB, CD ROM, 12" \$399

G3/600, 256MB, 20GB, CD ROM, 12" \$469

G3/700, 256MB, 20GB, CD ROM, 12" \$499

G3/800, 256MB, 30GB, CD ROM, 12" \$529

G3/800, 256MB, 30GB, Combo Drive, 12" \$639

G3/900, 256MB, 40GB, Combo Drive, 12" \$649

G3/900, 256MB, 40GB, Combo Drive, 14" \$679

G4/1.2Ghz, 256MB, 30GB, CD ROM, 12" \$799

Visit Us Online For More  
Fantastic Deals And Our  
Latest Price Drops!



**TechRestore.com**  
**1-866-96-RESTORE**  
Local/International: 925-689-9488

# 1-800-951-9632

Hours: Mon-Thurs: 9:00am-9:00pm • Fri: 9:00am-4pm • Sun: 9am-7pm • Sat: CLOSED

Visit our website at: [www.broadwayphoto.com](http://www.broadwayphoto.com)

Customer Service: 718-338-3028  
Local & International: 718-338-1800  
24 Hour Fax Hotline: 718-338-3029  
Email: [info@bwayphoto.com](mailto:info@bwayphoto.com)

We specialize in Overnight Delivery.  
Place Your Order by 7:00 PM EST  
and Receive Your Order by the  
Next Business Day!  
For an Additional  
\$29.95



• 21 Day Satisfaction  
• Next Day Air Available  
• Worldwide Shipping

• No Surcharge on Credit Cards  
• Government & School PO's Accepted

## DIGITAL CAMERAS



NIKON Coolpix 880

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$639.99



NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99



NIKON D2HS

- 4.1 MegaPixels
- 2.5" LCD Screen

\$2649.99



NIKON D70-S

- 6.1 MegaPixels
- 2.0" LCD Screen

\$709.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels
- 10x Opti4x Dig Zoom

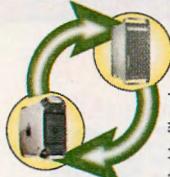
\$539.99

NEW! NIKON Coolpix 840

- 8.0 MegaPixels</

# The Mac Experts!

Located in Oregon, the land of forests, friendly people and no sales tax



## Recycle Your Mac!

Thinking of upgrading to a new Mac model?

PowerMax has one of the best selections of G5 Power Macs on the web. And you can trade in your old Mac<sup>†</sup> for credit toward a brand new one. After all, your old Mac has been a good friend; it deserves better than a trip to the landfill. Call us today or go online to find out how easy it is to recycle your old machine!



### iPod Accessory Specials!

iSkin Evo choose from over 10 colors ..... \$19

Dr. Bott Univ kit with FM transmitter ..... \$47

## Looking for iPods?

We ship hundreds of iPods and iPod accessories every month!

iPod AppleCare .....	\$59
iPod shuffle 512MB .....	\$99
iPod shuffle 1GB .....	\$149
4GB iPod mini refurbished .....	\$179
4GB iPod mini .....	\$199
6GB iPod mini .....	\$249
20GB iPod previous model.....	\$299
30GB iPod Photo.....	\$349
60GB iPod Photo.....	\$449
60GB iPod previous model.....	\$479

The PowerMax warehouse is packed with thousands of Macs ready for nationwide shipment!



## Get a PowerBook for just \$249!

As the web's largest Certified Pre-Owned Mac dealer, PowerMax has a massive selection of quality, pre-owned PowerBooks, iBooks, iMacs and PowerMacs. We have over 550 configurations to choose from:

G3 PowerBooks – wallstreets, pismos, etc. ....	starting at \$249
G3 iBooks – clamshells, snows, etc. ....	starting at \$359
Titanium PowerBooks .....	starting at \$799
G4 Power Macs – graphites, quicksilvers, etc. ....	starting at \$349
G3 CRT iMacs – all colors available! .....	starting at \$149
G4 LCD iMacs .....	starting at \$729
G3 'Yosemite' Towers .....	starting at \$159

All Certified Pre-Owned macs are thoroughly cleaned, inspected, bench-tested and come with a 90-day warranty.



## Hot Prices on Cool, New Macs!

12" iBook G4/1.2GHZ 256/30/combo/airport ..	\$999
14" iBook G4/1.33GHZ 256/60/super/airport ext ..	\$1499
12" PwrBook G4/1.5GHZ 512/60/combo/AP ext ..	\$1494
15" PwrBook G4/1.5GHZ 512/80/super/AP ext ..	\$2149
17" PwrBook G4/1.67GHZ 512/100/super/AP ext ..	\$2694
17" iMac G5/2.0GHZ 512/160/super/AP ext/BT ..	\$1494
Mac mini G4/1.25GHZ 512/40/combo/BT.....	\$599
Mac mini G4/1.25GHZ 512/40/combo/AP Ext/BT ..	\$648
Mac mini G4/1.42GHZ 512/80/combo/AP Ext....	\$739
Power Mac dual G5/1.8GHZ 256/80/super .....	\$1699
Power Mac dual G5/2.0GHZ 512/160/super .....	\$1988
Power Mac dual G5/2.7GHZ 512/250/super .....	\$2988

Get OS 10.4 Tiger for only \$99!\*

And get a free, cuddly stuffed tiger with purchase



Get the Card – Get the Mac Of Your Dreams!



Become a preferred customer with PowerMax and save!

## Summer Product Blowout

We're clearing out the warehouse with these hot specials!

Verbatim DVD-R 10pk 4.7GB branded jewel case ..	\$14 <sup>99</sup>
Radio Shack headphone splitters .....	\$3 <sup>99</sup>
Inland Pro Sound 2000 speakers .....	\$29 <sup>99</sup>
Logitech 3-button optical mouse .....	\$15 <sup>99</sup>
Belkin Laptop Bundle: case, mouse, cables & more! ..	\$49 <sup>99</sup>
IBM 17" refurbished CRT monitor .....	\$99
Apple 22" pre-owned ADC display .....	\$888
Apple Airport Extreme card .....	\$64 <sup>99</sup>
Apple Airport card used .....	\$99
Nikon CoolPix 4200 digital camera (open box) ..	\$299
Canon ZR100 digital camcorder (open box) ..	\$339
Canon G6 PowerShot digital camera (open box) ..	\$559
IBM 60GB IDE internal hard drive (used) .....	\$59 <sup>99</sup>

### Apple's New Final Cut Studio



Comes bundled with Final Cut Pro 5, Soundtrack Pro, Motion 2 and DVD Studio Pro 4

**\$1188**

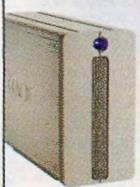
### New Apple 17" display for only \$399!



A great price – crystal clear and ultra flat!

**LACIE**

LaCie is breaking the limits of hard drive capacity with their new Big Disk Extremel



40GB Mobile FW/USB .....	\$139
80GB FW F.A. Porsche Design .....	\$119
160GB FW F.A. Porsche Design .....	\$139
160GB d2 Extreme w/ Triple Int .....	\$179
250GB d2 Extreme w/ Triple Int .....	\$229
500GB d2 Extreme or Triple Int .....	\$399
1.0TB d2 Extreme or Triple Int .....	\$949
DVD+-RW 16x DL FW Light Scribe w/ Toast Titanium .....	\$189

# POWER MAX

Knowledge is Power

# 800-441-6977

Local: (503) 624-1827 • Fax: (503) 627-1635

Email: sales@powermax.com



Authorized Reseller



Apple Specialist

- Personal Financing
- Fast P.O. Approvals
- Business Leasing
- Daily Specials on our Web Site

Prices subject to change without notice. Credit card orders strictly verified against fraudulent use. With use of credit card as payment, customer acknowledges that some products are subject to final sale. Many prices are limited to stock on hand. All brand names are registered trademarks of their respective holders. Not responsible for typographical errors. \*after mail-in rebate(s) <sup>†</sup>excludes mac mini <sup>‡</sup>some restrictions apply

**New Product**



# Drive Genius

Maintain, Manage, and Optimize Your Hard Drive

Clone • Partition • Defragment • Repair • Rebuild • Test • Analyze  
Verify • Initialize • Shred • Scan • Edit And More

Check Our Website For Hot Upgrades From Competing Products...

1-877-4-PROSOFT [www.prosofteng.com](http://www.prosofteng.com)

# DATA Backup

Backup, Made Easy



Easy to use • Automatic operation • Full or selective backups  
Cloning • Incremental • Synchronize • Encrypt • Compress  
Finder readable backups • Works with any drive

Buy Online - Backup Now, Free Demos...

1-877-4-PROSOFT [www.prosofteng.com](http://www.prosofteng.com)

### Share USB Printers!



Part# PS-4A  
MSRP \$99

Connect 4 USB Printers  
Connect To Ethernet

### 4PORT PRINT SERVER

The KeySpan 4-Port Print Server is an ideal print sharing solution for creative professionals!

**High Capacity:** Connect as many as 4 USB printers to your wired or wireless network.

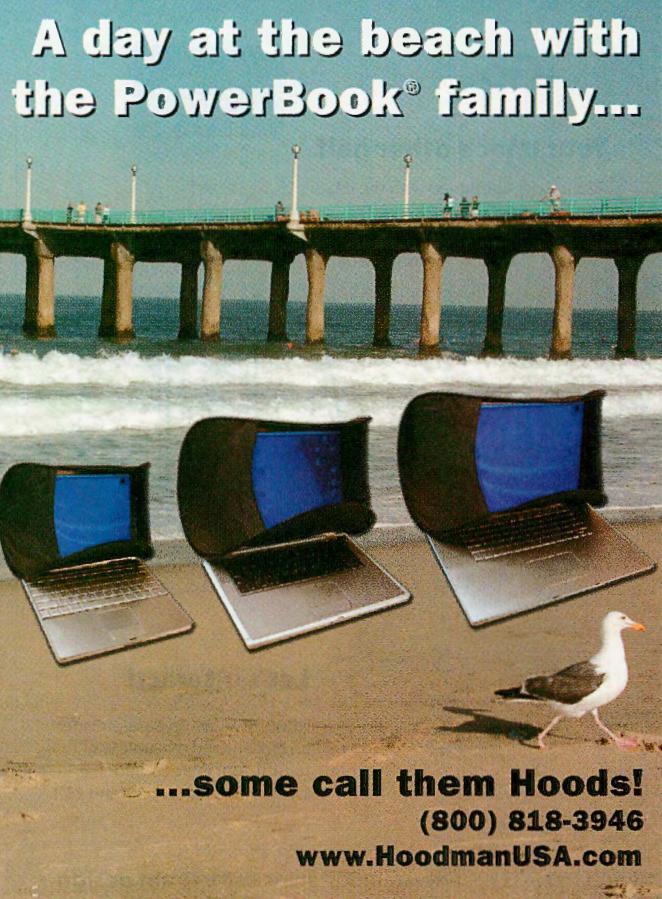
**Bi-Directional:** Transmits print jobs to attached printers. Reports ink/paper status back to the Mac/PC.

**Versatile:** For use with inkjet printers, laser printers, photo printers, label printers and plotters.

**High Performance:** Supports simultaneous use of attached printers.

**KEYSPAN** Connections for your Computer [www.keysan.com](http://www.keysan.com)

## A day at the beach with the PowerBook® family...



...some call them Hoods!

(800) 818-3946  
[www.HoodmanUSA.com](http://www.HoodmanUSA.com)

## Be Creative. Be Smart. Be Here.

### Get a FatCow™

**\$8.25\* a month**

- 1 Gig of disk space
- 30 Gigs of monthly transfer
- 100 email boxes
- WebMail
- Spam & virus filtering
- ShopSite Shopping Cart
- SiteDelux Site Editor

30 - Day Money Back Guarantee



**FatCow™**  
Web Hosting

- Web Statistics
- CGI, PHP, MySQL
- Search Engine Tools
- Message Board
- Toll-Free Support

[www.fatcow.com/addict](http://www.fatcow.com/addict)  
Toll Free 1.800.925.2184

\*Monthly rate based on the annual fee of \$99, due at signup.

Copyright © 2004 FatCow Web Hosting

**Your iMac's other half.**

"iGo is a desk designed with the iMac in mind, and the two together are quite a sight."

★★★★★ Macworld UK

**Let's interact!**

NEW. i360° swivel base provides an elegant and dynamic way to turn your iMac G5 and Cinema Display (17", 20" and 23")

1.800.797.7321 [www.raindesigninc.com](http://www.raindesigninc.com) rain design

**FAMILY HISTORY - GENEALOGY****REUNION® 8**

Reunion 8 is the perfect tool to organize your family history. Plenty of room for names, dates, places, stories, notes, tidbits, and sources. Include all your favorite pictures, sounds, and home movies. Automatically build multimedia web pages to share your family history on the Internet! Print large, colorful tree charts, timeline charts, and fan charts for family reunions. Fun and educational for the whole family. Reunion 8 takes advantage of OS X and includes over 100 new features and enhancements!



REUNION

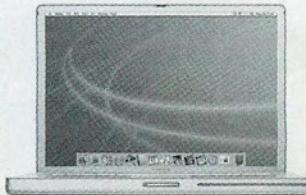


**MAC  
OF ALL  
TRADES**

**WE BUY AND SELL  
USED MACS**

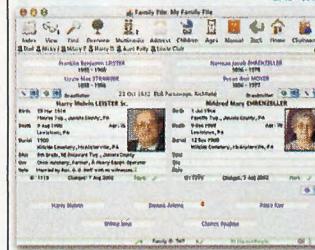
[www.macofalltrades.com](http://www.macofalltrades.com)

**MacPrices.com**  
Nothing But (Mac) Prices



Find the lowest price!  
Get the best free bundles!

[www.macprices.com](http://www.macprices.com)



Leister Productions  
web site/demo: [www.LeisterPro.com](http://www.LeisterPro.com)  
e-mail: [info@LeisterPro.com](mailto:info@LeisterPro.com)

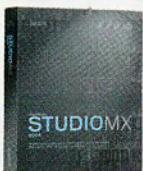
To order, call...  
MacConnection 800-800-2222

**Software Savings for Students, Teachers, and Schools!**

**Get up to 85% off retail software prices on the brands you know and use...**



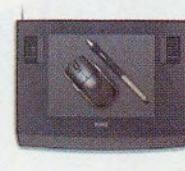
**Adobe®**  
Photoshop CS2  
**Save! 53%**  
Order Today!  
Get the Best for Less!



**Macromedia®**  
Studio MX 2004  
**Save! \$700**  
Now! \$199.<sup>95</sup>  
4 Programs - 1 Price!



**Quark®**  
QuarkXpress 8.5  
**Save! \$756**  
Now! \$189.<sup>95</sup>  
The Industry-Standard!



**Wacom®**  
Intuos3 6x8  
**Save! \$40**  
Now! \$279.<sup>95</sup>  
Great Graphics Tool!

We carry thousands of industry-leading software and hardware products at huge discounts for students, teachers and schools. These special prices are ONLY for the academic community. And our prices are typically \$10-\$20 lower than most college bookstores! Call or visit us online today and start saving!

**Adobe®**

Acrobat Pro 7 ..... **Save 69%**  
Creative Suite 2 ..... **Save 69%**  
Video Collection ..... **Save 55%**

**Alias®**

Maya Complete Student.... **\$289**  
Maya Unlimited Student .... **\$389**

**Canopus®**

ADVC-300 A/D Converter ... **\$399**

**Macromedia®**

Flash MX 2004 ..... **\$99**  
Flash MX 2004 Pro ..... **\$149**  
Dreamweaver MX 2004 ..... **\$99**  
Contribute 3 ..... **\$89**

**Microsoft®**

Office 2004 Student/Teacher .. **\$149**

**Sibelius®**

Sibelius 3 ..... **\$229**

**This Month's Featured Titles:**

Curious Labs Poser 6 ..... **\$139**  
Griffin AirClick iPod remote ..... **\$29**  
Logitech mm22 iPod Speakers ..... **\$39**  
MacAlly IceTune iPod Speakers ..... **\$54**  
FileMaker Pro 7 ..... **\$149**  
Apple Mac OS X 10.4 Tiger ..... **\$119**  
Roxio Toast Titanium ..... **\$79**  
Thompson EndNote 8 ..... **\$189**

**Hey Parents!**

"You are eligible  
to buy for your  
students at home  
or away at school."

**Give us a call anytime! 1-800-294-4035**

**MA. AcademicSuperstore.com**

**ACADEMIC  
SUPERSTORE**

Special web site hosting offer  
for MacAddict Readers!

## Macintosh Web Hosting & Co-Location

877-858-7722  
[www.Inno-Tech.com/MacAddict](http://www.Inno-Tech.com/MacAddict)

Exclusive hosting provider for  
MacAddict

**InnoTech**  
INTERNET PRESENCE SPECIALISTS



Soothing heat for cold, stiff hands!  
[www.ThermalRest.com](http://www.ThermalRest.com)  
800.818.3946

# MacAddict

You Can Also Order By Mail  
By Writing To Us At:

MacAddict Customer Service  
Future Network USA  
150 North Hill Dr.  
Brisbane, CA 94005

PLEASE SEND CHECK OR  
MONEY ORDER AND SPECIFY  
WHICH ISSUE YOU WOULD LIKE TO ORDER.

Inside the U.S. please send: \$9.95 for magazine and CD-ROM; \$7.95 for magazine only.  
Outside the U.S. please send: \$12 for magazine and CD-ROM; \$10 for magazine only.  
U.S. prepaid funds only.

You Can Order Back  
Issues By Calling

**1-800-865-7240**

Mon-Fri, 7am-11pm CST

Please have your credit card ready.  
Back issues are available  
on a limited basis.

tekmōd™

New!



Versatile  
Notebook Soft-Case

With Internal  
Protective  
Poly-Armor

Convenient  
Use-In-Case Design!

[www.radtech.us/ma](http://www.radtech.us/ma)

RADTECH™

## RAMJET

High-Performance  
Mac Memory

### iMac G5



256mb - \$39  
512mb - \$59  
1Gig - \$139

### iBook G4



256mb - \$49  
512mb - \$79  
1Gig - \$275

### PowerMac G5



512mb - \$75  
1Gig - \$125  
2Gig - \$249

### PowerBook G4



512mb - \$79  
1Gig - \$275  
2Gig - \$499

### eMac DDR



256mb - \$39  
512mb - \$59  
1Gig - \$115

### G4 DDR



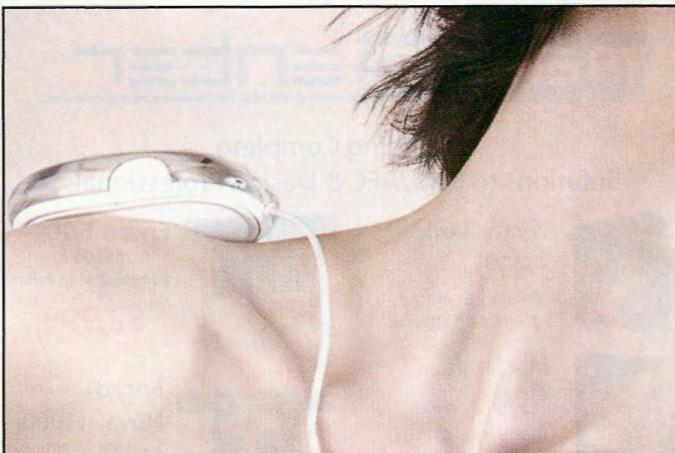
512mb - \$59  
1Gig - \$115  
2Gig - \$225

Secure Online Ordering:

**WWW.RAMJET.COM**

1-800-831-4569

Better RAM Means Fewer Crashes.



## We've got your back.

Thousands of parts and accessories for your Powerbook

- avoid costly service
- do-it-yourself Powerbook & iBook parts
- free online Fixit Guides
- thousands of parts and upgrades
- 6-month warranty on most products

**PB  
FIX  
IT**  
pbfixit.com

**MEMORY for PC and Apple, Laptops, Digital Cameras, MP3 Players and more ...**

**WE CAN BEAT  
Crucial, Kingston,  
Comp-USA, ANYONE!  
AND, WE GIVE YOU  
FREE SHIPPING!**

- ✓ We Manufacture Our Memory Using the Highest Quality Components
- ✓ Lifetime Warranty
- ✓ Compatibility Guaranteed
- ✓ Free Technical Support
- ✓ Experienced Sales Staff Since 1994

**18004MEMORY**  
.com

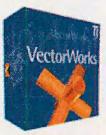
**1-800-4-MEMORY**

1-800-463-6679

<http://www.18004memory.com>

**macro enter**

Providing Complete Solutions to CAD/AEC & Design Professionals



**VectorWorks**  
**\$975**

Industry Standard 2d/3d CAD Software



**Encad T-200+  
Mac OS X  
Unbeatable Bundle**  
**\$2,999**



**MacDraft**  
**\$299**

Easy to Use 2d CAD



**Encad  
Novajet1000i  
Superior Quality & Speed  
42"** **\$10,299**



**UZR iModeler**  
**Web \$99**

Create 3D Models Using Your Digital Camera



**Microspot X-RIP**  
**\$399**  
Connect any large format printer to Mac OS X



**SEH IC-105**  
**\$189**

Connect Your Printer To Any Network



**Shiraz V6**  
The Professional RIP  
**\$1,490**

Call us or check out our website for a complete selection of our products. Academic prices are also available.

1-800-622-7568  
[www.macroenter.com](http://www.macroenter.com)

**Best Prices  
on Plotter Paper!**

**MAC-PRO**  
SYSTEMS & SOFTWARE

Tons of iPod Gear in Stock!  
PowerBooks! iBooks! Towers!  
Minitowers! iMacs! eMacs! Software!



Call us for Those Hard to Find Parts!

Lowest Prices! Fast Delivery!  
Everything Macintosh...EVERYTHING!

**WWW.mac-pro.com**  
**800-525-3888**

**MacAddict.com**

GET WHAT YOU NEED

**DATA RECOVERY: 800-440-1904**



"We Can Save It!"

7 great reasons to choose DriveSavers:

- Fast, advanced, proprietary techniques.
- All operating systems; Mac, Windows, OS/2, Netware and UNIX.
- All storage devices including SAN, RAID and NAS systems.
- Instantly retrieve recovered data with DataExpress™.
- Recommended and certified by all hard drive manufacturers.
- Government Contractors.
- Featured on MacAddict, MacWorld, CNN, BBC and others.



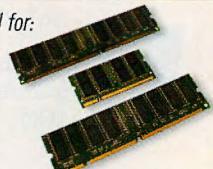
Visit DriveSavers at [www.drivesavers.com](http://www.drivesavers.com)

©2003 DRIVESAVERS, INC. 400 BEL MARIN KEYS BLVD., NOVATO, CA 94949 INTL 415-382-2000

**www.MEMORY/SOLUTIONS.com**

We've got all the memory solutions you need for:

Power Mac  
iMac  
eMac  
PowerBook  
iBook  
Mac Mini



**Special Buy Memory Sale!**

<b>G5 1gb</b>	<b>\$ 84</b>
<b>G5 512mb</b>	<b>42</b>
<b>PowerBook G4 1gb Samsung</b>	<b>157</b>
<b>PowerBook G4 512mb Samsung</b>	<b>66</b>



New Original Apple Laptop Batteries-In Stock!

Titanium Battery (quantities limited)

Clamshell iBook Battery

White-Snow iBook 12" Battery

iBook 14" 61w or 66w Battery

**ALL \$99**



**AirPort® Card**

Original 802.11B

**\$78!**

limited quantities available

**www.MemorySolutions.com**

**800-462-2160**

Note: Prices are subject to change. Quantities limited to stock on hand.

MW607

# You love your Mac.

What about your Internet?

Meet EarthLink High Speed. We'll get your heart racing with exceptional service and blazing fast speed.

**Switch to EarthLink today and start feeling the love!**

[www.earthlink.net/go/macaddict](http://www.earthlink.net/go/macaddict)

**1.866.263.7370**

Be sure to mention these promo codes:

DSL 1023293 Cable 1023289  
Dial-Up 1023296



 **EarthLink**

\*Limited time offer. Service not available in all areas. Certain taxes and fees may apply. Prices subject to change without notice. Available to select new subscribers only. May not be used in conjunction with any other offer. DSL offer requires a 12-month subscription. Early-termination fees apply. Introductory offer of first 6 mo. will be billed at \$19.95 per mo.; \$39.95 per mo. thereafter for 1.5Mbps service. Includes standard DSL installation kit. Shipping and handling charges not included. Additional equipment may be required. Other restrictions may apply. \*\*The iTunes Music Store Gift Certificate code will be sent to your EarthLink email address after your first complete monthly payment is received. Please allow 4-6 weeks processing time. See iTunes Web site for redemption usage instructions. © 2005 EarthLink, Inc. EarthLink and the EarthLink logo are registered trademarks of EarthLink, Inc. iTunes, Mac and the Mac logo are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Trademarks are property of their respective owners. All rights reserved. F226-4719

**LIND**

your Essential Source  
Power Accessories for  
Mobile Computing



**Auto/Air Power Adapters for all Titanium G4s & iBook models**

**Replacement Mini AC Adapters for all Titanium G4s & iBook models (65 Watts max.)**



**Lind adapters feature:**  
• Fault protection circuitry with Automatic reset  
• Durable ABS housing  
• Nylon carrying case



**Mini AC adapters feature:**  
• 100 - 240 auto switching input  
• Fold away outlet prongs  
• Convenient cable wrap with Velcro™ Strap  
• 4.1 x 1.6 x 1.1"



**MaxPower 60 (95WH)**  
**& MaxPower 90 (140WH)**

**LiIon Auxiliary Power Packs For all Ti G4s & iBooks**

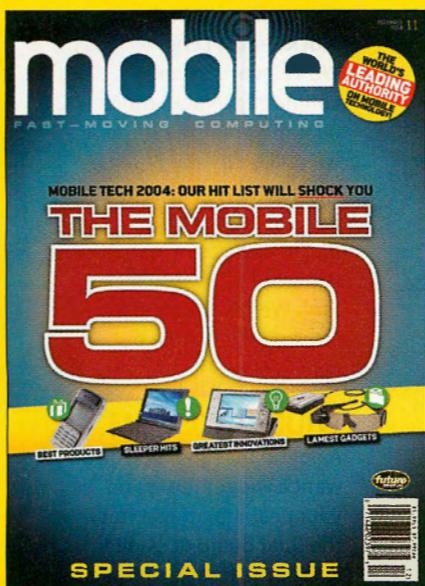
**Extend your laptop runtime 3 to 4 times longer**  
**Lightweight**  
**2.4(MP60)lbs - 3.4(MP90)lbs**  
**Size - 11.25 x 8.5 x .5"**

**Order online at:**

[www.lindelectronics.com](http://www.lindelectronics.com)  
or call #800-897-8994 to order

Lind Electronics, Inc. 6414 Cambridge Street, Minneapolis, MN 55426 #952-927-6303

# 12 issues for only \$12



**A savings of 83% off the newsstand rate!**

**Subscribe to Mobile at**  
[www.mobilemagazine.com](http://www.mobilemagazine.com)  
**or call toll-free**  
**800-266-3312**

Offer good in U.S. only. One year, Canada: U.S. \$26 (includes GST).

One year, Foreign: U.S. \$39.

Prepaid in U.S. funds. Newsstand price per issue is \$5.99.

Please allow 6-8 weeks for mailing of first issue.

**MOBILE MAGAZINE** is the world's leading authority on mobile technology

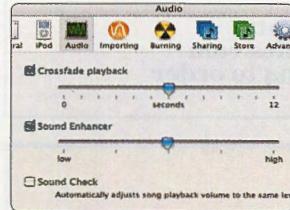


## LETTERS

### iTUNES TIP

I recently began experiencing lousy sound during iTunes playback on my Mac—the sound coming out of my speakers was distorted and fuzzy. At first I thought it was my cheesy speakers, but the cause was an iTunes “feature”—Sound Enhancer. If you’re experiencing fuzziness or extreme distortion in iTunes playback, go to iTunes > Preferences > Audio, and either turn down or turn off Sound Enhancer. Worked for me; might work for you.

—Dave Harszlak



If your iTunes sound isn't as good as it used to be, the Sound Enhancer might be de-enhancing it.

iTunes' Sound Enhancer can sometimes do exactly the opposite of what its name would lead you to believe. We turned ours to High, and whaddya know—our music was suddenly tinny with a weird echo effect.—Max

## Survey Says

Here are the results of our April 2005 survey. Check out [www.macaddict.com](http://www.macaddict.com) each month for a new online poll.

**Mac Help > Discovering Your Mac** **Index**

**Switching from Windows**



**Moving to Mac OS X from Windows is a snap. You'll find a lot of familiar items, and discover great new features that make you feel right at home.**

**Switching from Windows**

**Ease a PC convert into OS X with an 11-year-old Mac.**

### EASY SWITCHERIN'

In Tiger's help system, under Help > Mac Help > Discovering Your Mac > Easy, Smart, Convenient, there's a nice little blurb about switching from Windows—and the picture next to it is an old Power Mac 8100. I guess moving from Windows to a G5 is too much for most PC users, so it's better to start them off with a small upgrade.—Justin Smith

### MA'S SHUFFLE

Not every mom gets a custom iPod shuffle for Mother's Day!—Eric Jensen

How lovely! We just hope you remembered to delete all those filthy Beatles



songs before you gave it to her. Long-haired, good-for-nuthin' kids with their noisy rock and roll.—Max

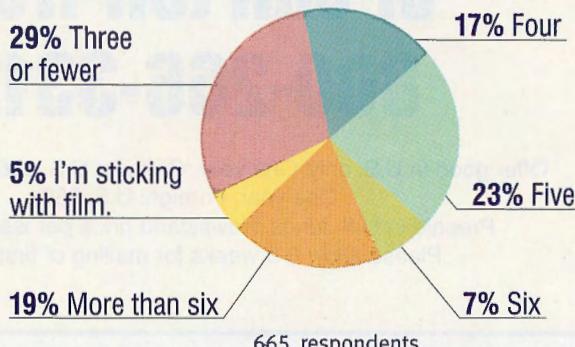
### KONFUSION

In “Photo E.R.” (Jun/05, p25), you state: “CMYK stands for Cyan, Magenta, Yellow, and Black (although why the letter *K* was chosen to represent black is something we've never understood—was CMYB taken?).” Well, the answer is that *K* doesn't stand for *black*, but rather *key*. In theory, solid values of

CMY printed on top of one another should produce pure black. But due to impurities in inks and other technical restraints, you get a dark muddy brown instead. To make up for this shortcoming, another color is added for the Key shadow component—usually black.—Kurt Lang

We've heard several conflicting explanations—including that the letter *B* was taken by the Blue in RGB, so they had to use the last letter of the word *black*—but yours matches the story at [www.wikipedia.org](http://www.wikipedia.org). We read it on the Internet, so it must be true!—Max

### How many megapixels can your digital camera capture?



### WIDGET WISDOM

A hot tip for Tigerians: If you want a widget to stay on your desktop, drag it from the Dashboard dock and, without letting go of it, press F12 or whatever hotkey you have assigned to make the widgets go away. Then let go.—Leela Shannon

## WRITE TO US!

MacAddict, 150 North Hill Dr., Ste. 40,  
Brisbane, CA 94005  
or letters@macaddict.com

FOR CD PROBLEMS:  
go to [www.futurenetworkusa.com](http://www.futurenetworkusa.com)

FOR SUBSCRIPTION QUERIES:  
call (toll-free) 888-771-6222

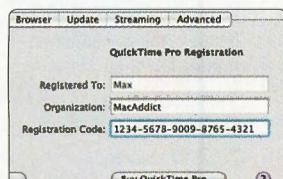
LOG OUT

79

## QUICKTIME WOES

I upgraded QuickTime 6 Pro to QT 7 on my G4 and it deleted QuickTime 6 Pro—software that I paid good money for! No warning, no message, nothing to tell me that this would happen. Apple ripped off my QuickTime 6 Pro and this is not right!—Robert

**You're not totally screwed,** Rob—and all the rest of you who wrote us in complaining about this. Apple keeps old versions of QT at its QuickTime Support page ([www.apple.com/support/quicktime](http://www.apple.com/support/quicktime)). Just uninstall QT 7, reinstall QT 6, and try your key. Unfortunately, you won't be able to have QT 7 on your Mac—and if you want the Pro version of QT 7, you'll have to buy a whole new license.—Max



Our palindromic QuickTime 6 registration code wouldn't work in QT 7, but your real one will if you download and reinstall QT 6.

## BAD HOUSEKEEPING

I just received issue 106 in the mail and noticed a record low female contributor count. Does that explain why we're defacing our Macs with chip containers and tin foil (see "Boost Your Wireless Connection," Jun/05, p56)? What's next, RAM made from dirty socks and pork rinds, or home-pressed CDs made from frat-house detritus? Love the MacGyver/Rube Goldberg/Mousetrap-game ingenuity, Niko, but if I wanted my rig to look like junk, I'd use a Wintel box.—Geoffrey Davis

Hm, I predict you may not enjoy next month's "Make Your Own Keyboard out of Egg Cartons, 7-11 Big Gulp Cups, and a Bottle of Mr. Boston Sour Apple Schnapps."

—Max

One potent component.



## LET'S GET ONE THING STRAIGHT

In "Photo E.R." (Jun/05, p25), you state that Photoshop CS and Elements require you to "guess a number for the exact degree of necessary rotation" to straighten a less-than-straight image. That's not exactly true: You can use

Photoshop's Measure tool (click and hold the Eye Dropper tool in the tool palette to reveal it) to measure the degree necessary to straighten your image. Use the tool to draw a line that's supposed to be straight, then go to Image > Rotate Canvas > Arbitrary, and Photoshop will automatically insert the proper degree of rotation.—Brian Lichtman



There's more than one way to straighten a photograph.

# WIN!



## Win a 400GB Hard Drive!

Got lots and lots of Brobdingnagian files? Other World Computing can help—just write the best caption for the image below, and you'll become the proud owner of a spacious and zippy 400GB, 7,200-rpm OWC Mercury Elite-AL Pro FireWire 800/400+USB2 Combo drive, bundled with Dantz Retrospect backup software, Intech SpeedTools Utilities, and more (\$439.99, [www.macsales.com](http://www.macsales.com)).

**Only one entry per contestant.**

## Entry Form



Write a caption for this picture.

## CONTESTANT INFORMATION

Full Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

Email or telephone: \_\_\_\_\_

Send email entries to: [contest@macaddict.com](mailto:contest@macaddict.com) with the subject: OWC Contest (Don't forget to include your address information!)

Send snail-mail entries to: OWC Contest, *MacAddict* magazine, 150 North Hill Dr., Ste. 40, Brisbane, CA 94005.

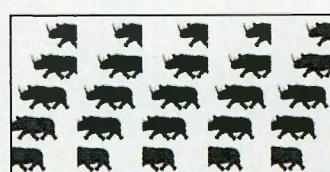
Deadline for entry: August 31, 2005.

Contest results will appear in our Dec/05 issue.

**Contest Rules:** The judges will be *MacAddict* editors and will base their decision on 33 percent humor, 33 percent originality, and 33 percent creativity. All entries must be received no later than August 31, 2005, with the winner announced around December 2005. By entering this contest, you agree that Future Network USA may use your name, likeness, and Web site for promotional purposes without further payment. All prizes will be awarded, and no minimum number of entries is required. If two or more people enter identical winning captions, the entry received first will be awarded the contest prize. Prizes won by minors will be awarded to their parents or legal guardians. Future Network USA is not responsible for damages or expenses the winners might incur as a result of this contest or the receipt of a prize, and winners are responsible for income taxes based on the value of the prize received. A list of winners may also be obtained by sending a stamped, self-addressed envelope to Future Network USA c/o *MacAddict* Contest, 150 North Hill Dr., Ste. 40, Brisbane, CA 94005. This contest is limited to residents of the United States. No purchase necessary, void in Arizona, Maryland, Vermont, Puerto Rico, and where prohibited by law.

# Winner!

Congratulations to John Mullane, whose tribute to Jimmy "JJ" Walker won him a dozen games from Aspyr (\$446.88, [www.aspyr.com](http://www.aspyr.com)).



"Rhino-mite!"

www.in-the-blogging.com

Official Site KnowledgeTree.com Origin Systems Temptations All About Eve Apple Web Adam's

# FROM ADAM'S APPLE

## Day Ten: OMG!

Missed an entry yesterday. Horrible day. Tried one of the apples Eve got from a local vendor—a real snake-in-the-grass—and got soooo sick. Ashamed of myself, actually. Plus, Eve's taken to wearing this fig-leaf apron; not that bad a look, really. Makes sense. Oops. Gotta go. Some big dude with a flaming sword—I kid you not—just showed up. More later. Hopefully.

0 COMMENTS

## Day Eight: Fiat Nooky!

What a night! Know what I mean, know what I mean, nudge nudge, wink wink, say no more? In other news, Eve's checking out the local crops.

0 COMMENTS

## Day Seven: Madam, I'm Adam

Woke up a bit sore in the rib cage. Odd. Whatever. No biggie. What is a biggie is that I've got company—that is, in addition to the fish of the sea, the fowl of the air, the cattle, and every thing that creepeth upon the earth. Says her name's Eve. A bit odd-looking, but somehow ... well ... strangely enticing. Stay tuned. Oh, the LandLord took the day off.

0 COMMENTS

## Day Six: It's All Good

Well, it's Day One from my point of view, but according to the LandLord, it's actually Day Six—and, trust me, he doesn't appear to be the kind of guy you want to argue with. So Day Six it is. In any case, it was a beautiful day today—not that I can make many comparisons.

0 COMMENTS

VISITORS  
000001

## And Now for Something Completely Different:

Assyrian: The Annunaki

Australian: Ungambikula

Aztec: Coatlique

Babylonian: Marduk

Bantu: Nzame

Boshongo: Bumba

Chinese: Pan Gu

Comanche: Tu-chai-pai

Egyptian: Atum &amp; Khepri

Hopi: Spider Woman

Indian: Purusha

Inuit: Raven

Japanese: Kunitokotatchi

Maori: Ranginui &amp;

Papatuanku

Mayan: Tepeu &amp;

Gucumatz

Mongolian: Ulgen Tenger

Norse: Ymir &amp; Audhumla

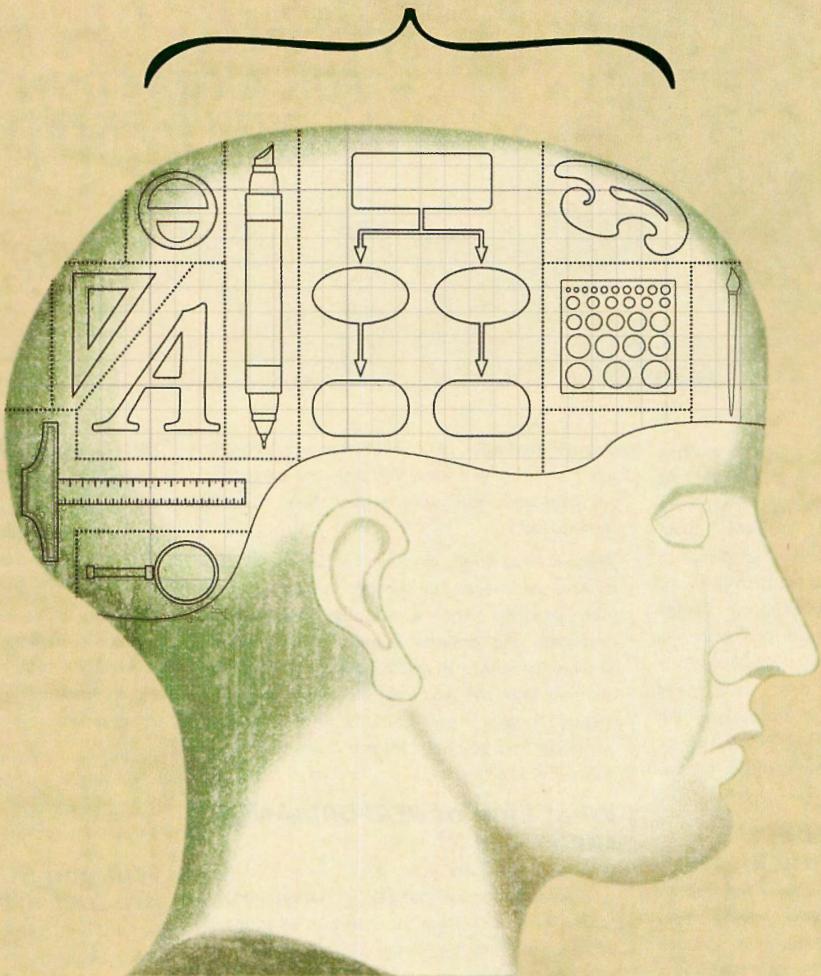
Sudanese: Juok

Tahitian: Taaroa

Yoruban: Olodumare

Zulu: Unkulunkulu

# OmniGraffle



## OmniGraffle

Pronunciation: öm' nē-gräf'1

Noun: 1. A powerful, yet easy to use Mac OS X diagramming and drawing application. 2. A tool to create org charts, family trees, flow charts, network diagrams, school projects, posters, CD covers, and almost anything else you can think of. 3. A great way to make all your PC-using friends really, really jealous.

## NEW VERSION!

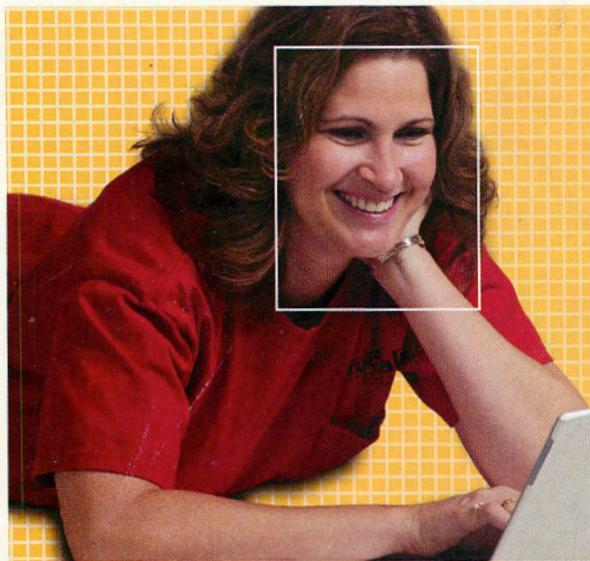
**Introducing OmniGraffle 4 with a host of exciting new features:**

Updated interface • Dynamic outline view • LinkBack support • Bezier curve drawing tool  
Master canvases • Tables • Document scale • Improved Visio XML import and export, and SVG export

*"It's Worth It. With OmniGraffle 4, good things just keep getting better." — Victor Marks, MacNN*

Learn more and download a free trial at [www.omnigroup.com/macaddict8](http://www.omnigroup.com/macaddict8)





# GET EXACTLY THE RIGHT MEMORY FOR YOUR MAC...

## FOR A FRACTION OF WHAT YOU'D EXPECT TO PAY!

You know that finding just the right memory upgrade plays a big part in getting the performance you want from your Mac (and that upgrading your Mac's RAM can save you a bundle of cash compared to buying a new system). Now that you're ready to get your upgrade installed and start enjoying better performance, how do you figure out who has "the best deal" on Mac memory? You'll see tons of "lowest-price-anywhere!" deals, but really getting the best deal involves more than just price—it's also about things like compatibility, performance, and support. That's where Crucial comes in.

### Will your memory be COMPATIBLE with my Mac?

Today's Macs require specific memory designed to exacting standards. Do you really feel comfortable trying to sort through a foreign-looking list of base part numbers to figure out which memory is right for your Mac? Our Crucial® Memory Advisor™ tool has approximately 594 upgrade choices for 250 distinct Mac models. In just three clicks, we'll provide you with a specific, detailed list of compatible upgrades, recommended upgrades, and even the most

popular upgrades. Your FREE memory upgrade advisor report will show you only the parts that we guarantee will work in your Mac, or your money back!

We're able to do this because Crucial is a division of Micron, one of the world's largest memory manufacturers and a supplier to leading notebook and desktop manufacturers (OEMs). Micron collaborates with OEMs to develop memory that will perform compatibly with the rest of the system specifications; in fact, chances are good that you have Micron memory in your Mac right now!

### What kind of PERFORMANCE can I expect?

Whether you use your Mac as a tool for schoolwork or household bills, an entertainment center for music or movies, or as part of your job in image editing and design, a Crucial memory upgrade is a fast and easy way to prepare your Mac to run faster, multi-task between applications, and open large files. Our Memory Advisor tool provides you with information to advise you and explain the various levels of performance gains you can expect when you purchase a certain upgrade.

### Will your PRICE max out my credit card?

You want the assurance that your memory upgrade is the right match for your Mac and that it will be the same quality as the original manufacturer's parts, but you hate paying the premium "dealership" price. As the only consumer memory upgrade provider that's part of a major DRAM manufacturer, Crucial sells OEM-quality modules over the Internet at factory-direct prices.

On top of that, enjoy free shipping (for a limited time, on orders shipped within the contiguous U.S.), free customer service, free tech support, and a free limited lifetime warranty.

### Will you SUPPORT the product after the sale?

Don't worry; we won't leave you hanging if you need help. Our expert technical support—all "levels" of it—is always free. And our 30-day, no-risk compatibility guarantee means that if the memory you purchased through the Memory Advisor tool isn't compatible with your Mac or doesn't perform as you expected, simply package it up and send it back.

### Crucial is the answer for Mac memory!

With Mac memory from Crucial, you get premium quality and premium service without paying premium price! Crucial's user-friendly Memory Advisor tool and helpful customer support make it easy to get compatible memory for your Mac. Order yours today and start enjoying better performance for your Mac tomorrow!



### Exclusive offer for MacAddict readers!

Visit Crucial today, and in just three mouse clicks, get your FREE memory upgrade advisor report for your specific Mac desktop or notebook, including specific performance recommendations, the most popular upgrades, and the best upgrade value for you. **And, for a limited time, Crucial is offering Mac users a SPECIAL DISCOUNT.** To find the right memory for your system in just seconds (and get a great deal!) visit:

[www.crucial.com/macaddict](http://www.crucial.com/macaddict)

**crucial**  
TECHNOLOGY  
A Division of Micron

**The Memory Experts™**